# JVC

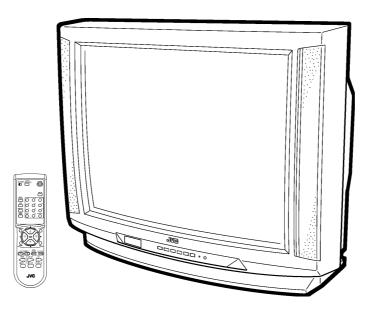
# SERVICE MANUAL

# **COLOR TELEVISION**

AV-27D201<sub>(US&CA)</sub>
AV-32D201<sub>(US&CA)</sub>
AV-32D201<sub>(A US&A CA)</sub>

BASIC CHASSIS

GR2



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# **SPECIFICATIONS**

	Contents			
Items	AV-27D201(US&CA)	AV-32D201 (US&CA) AV-32D201 (A US&A CA)		
Dimensions (W×H×D)	29-5/8" × 23-1/4" × 19-1/2"	33-7/8" × 27" × 21-5/8"		
	752mm × 590mm × 494mm	859mm × 684mm × 548mm		
Mass	78.1lbs / 35.5kg	114.4lbs / 52.0kg		
TV System and Color system		4		
TV RF System	CCIR(M)			
Color System	NTSC			
Sound System	BTSC (Multi Channel Sound)			
TV Receiving Channels and Frequency				
VL Band	(02~06) 54MHz~88MHz			
VH Band	(07~13) 174MHz~216MHz			
UHF Band	(14~69) 470MHz~806MHz			
CATV Receiving Channels and Frequency				
Low Band	(02~06, A-8) by (02~06&01)			
High Band	(07~13) by (07~13)			
Mid Band	(A~I) by (14~22)	-		
Super Band	(J~W) by (23~36)	Hz~804MHz)		
Hyper Band	(W+1~W+28) by (37~64)			
Ultra Band	(W+29~W+84) by (65~125)			
Sub Mid Band	(A8, A4~A1) by (01, 96~99)			
TV/CATV Total Channel	180 Channels			
Intermediate Frequency				
Video IF Carrier	45.75 MHz			
Sound IF Carrier	41.25 MHz (4.5MHz)			
Color Sub Carrier	3.58 MHz			
Power Input	120V AC, 60Hz	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Power Consumption	118W(US) / 1.7A(CA)	128W(US) / 1.8A(CA)		
Picture Tube	27" (73cm) measured diagonally, Full Square	32" (80cm) measured diagonally, Full Squar		
High Voltage	29kV±1.3kV (at zero beam current)	31kV±1.3kV (at zero beam current)		
Speaker	2" × 4-3/4" / 5 × 12cm, Oval type × 2			
Audio Power Output	5W+5W			
Video / Audio Input (1 / 2 / 3)	Video(1,2,3): 1Vp-p 75 Ω (RCA pin jack)			
	Audio(1,2,3): 500mVrms (-4dBs), High Impeda	ance (RCA pin jack)		
	S-Video (Input 1 Over)			
	Y : 1Vp-p positive (negative sync pro	ovided, when terminated with 75 $\Omega$ )		
	C : 0.286Vp-p (burst signal, when te	rminated with $75\Omega$ )		
	Component Input (Input 2)			
	Y: 1Vp-p positive (negative sync pro	ovided, when terminated with $75\Omega$ )		
	P <sub>B</sub> /P <sub>R</sub> : 0.7Vp-p 75 Ω			
Audio Output	Variable : More then 0~1550mVrms (+6d	Bs)		
(Variable / Fix : Selectable)	Low Impedance (1kHz when mo	,		
(	Fix : 500mVrms(-4dBs)			
	Low Impedance (1kHz when modulated 100%) (RCA pin jack)			
AV Compu link EX Input	3.5mm mini jack			
Antenna terminal	75Ω (VHF/UHF) Terminal, F-Type Connector			
	RM-C383-1A			
Remote Control Unit				

Design & specifications are subject to change without notice.

# SAFETY PRECAUTIONS

- The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

#### 4. Use isolation transformer when hot chassis.

The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.

#### Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.

Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : ( $\bot$ ) side GND, the ISOLATED(NEUTRAL) : ( $\bigstar$ ) side GND and EARTH : ( $\bigoplus$ ) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.

If above note will not be kept, a fuse or any parts will be broken.

- If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- 7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- 8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
- 9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

#### 10. Isolation Check

#### (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

#### (1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(.... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

#### (2) Leakage Current Check

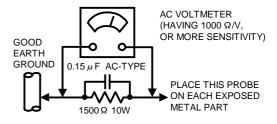
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

#### Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a  $1500\,\Omega$  10W resistor paralleled by a  $0.15\,\mu$  F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

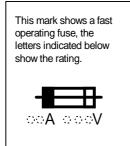
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).

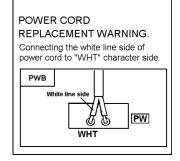


#### 11. High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.

See item "How to check the high voltage hold down circuit".





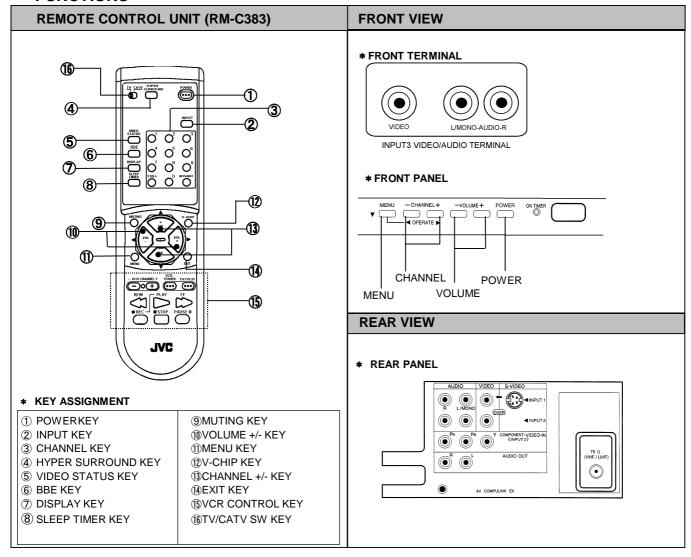
# **FEATURES**

- New chassis design enables use of a main board with simplified circuitry.
- 2 LINE Digital Comb filter Improved picture quality.
- Full-square CRT reproduces fine textured picture in every detail.
- With AV COMPU LINK EX terminal.
- Closed-caption broadcasts can be viewed.
- With AUDIO. VIDEO INPUT terminal.
- S-VIDEO input terminal for taking best advantage of Super VHS.
- Variable / Fix audio output terminal.
- I<sup>2</sup>C bus control utilizes single chip ICs.
- Because build in the BBE circuit improved the sound of conversation.
- DVD deck output can inputs to component video signal terminal.
- The hyper-surround system marks a reproduction of the acoustic effects in a theater with strong appeal.
- Built-in V-CHIP system.

# **OPERATING INSTRUCTIONS**

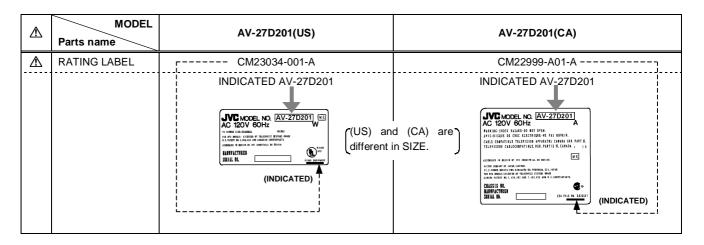
For OPERATING INSTRUCTIONS use that of "00 GR2 IB" (No.51676).

#### **■ FUNCTIONS**



# **HOW TO IDENTIFY MODELS**

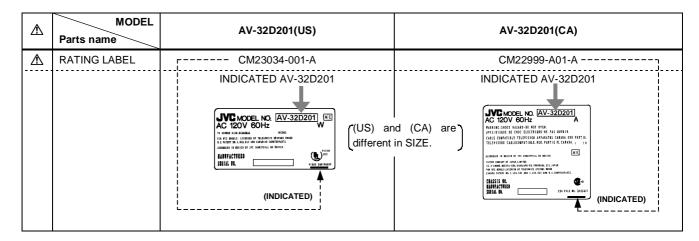
### AV-27D201(US&CA)

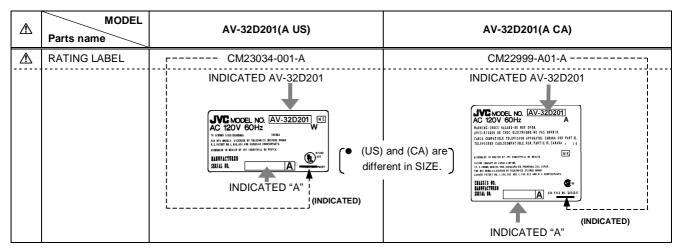


# AV-32D201(US&CA) / AV-32D201(A US&A CA)

• For model AV-32D201 (A US&A CA), the suffix "A" is added to the serial number on the rating label.

(The difference between AV-32D201 (A US&A CA) and AV-32D201 (US&CA) is in the PICTURE TUBE. As the result of the difference in picture tube, the MAIN PWB also differ.)





# SPECIFIC SERVICE INSTRUCTIONS

# **DISASSEMBLY PROCEDURE**

#### **REMOVE THE REAR COVER**

- Unplug the power cord plug.
- 1. Remove the **12** screws marked **A** as shown in Fig.2.
- 2. Remove the rear cover toward you.
- \* When reinstalling the rear cover, carefully push it inward after inserting the chassis into the rear cover groove.

#### **REMOVING THE CHASSIS**

- After removing the rear cover.
- Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the chassis from the front cabinet.
- 2. As shown in the Fig.2, withdraw the chassis backward along the rail in the arrow direction marked  ${\bf B}$  . (If necessary, take off the wire clamp, connector's etc.)
- \* When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the MAIN PWB.

#### **REMOVING THE TERMINAL BOARD**

- After removing the rear cover.
- 1. As shown in Fig.2, remove the  ${f 4}$  screws marked  ${f C}$  .
- As shown in Fig.1, after removing the claw marked D in the direction of arrow mark.
- When you pull out the TERMINAL BOARD in the direction of arrow marked E as shown in Fig.1, it can be removed.
- 4. Thus the connector should be securely inserted when the TERMINAL BOARD is installed again.

#### REMOVING THE FRONT CONTROL PW BOARD

- After removing the rear cover and chassis.
- 1. As shown in Fig.2, remove the **3** screws marked **F**.
- 2. Then remove the FRONT CONTROL PWB.

#### REMOVING THE FRONT AV IN PW BOARD

- After removing the rear cover and chassis.
- 1. As shown in Fig.2, remove the **2** screws marked **G** .
- 2. Then remove the FRONT AV IN PWB.

#### REMOVING THE SPEAKER

- After removing the rear cover and chassis.
- 1. As shown in Fig.2, remove the  ${f 4}$  screws marked  ${f H}$  .
- 2. Follow the same steps when removing the other hand speaker.

#### **CHECKING THE MAIN PW BOARD**

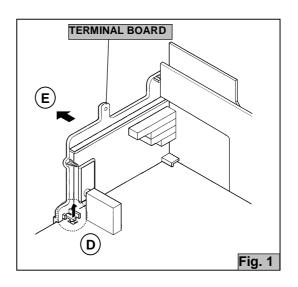
- 1. To check the backside of the MAIN PW Board.
  - (1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
  - (2) Erect the chassis vertically so that you can easily check the backside of the MAIN PW Board.

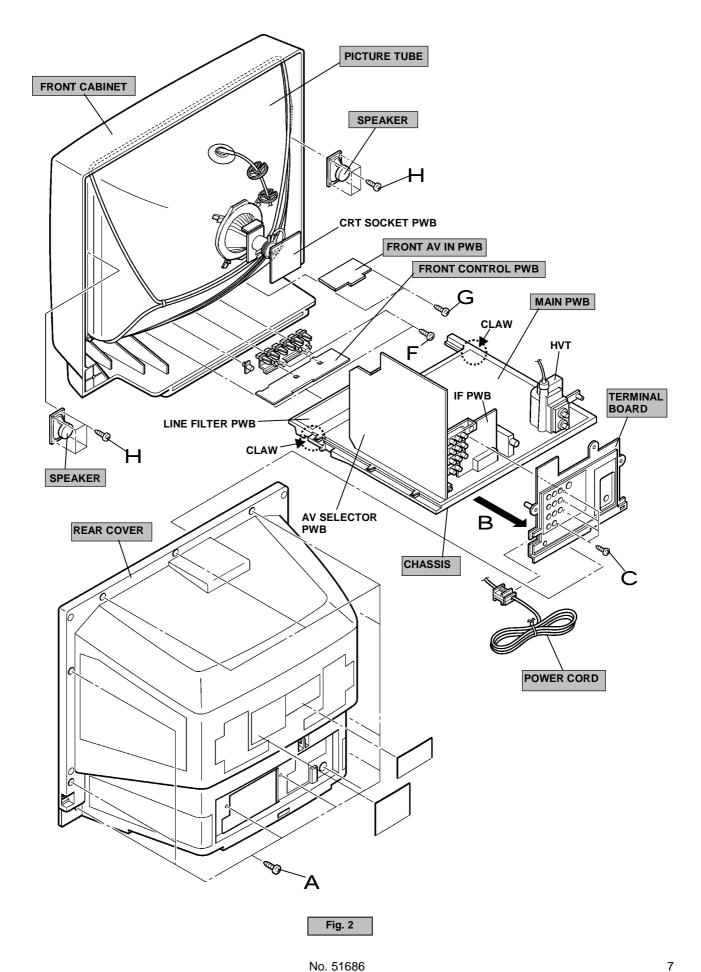
#### [CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PWB.
- Before turning on power, make sure that the CRT earth wire and other connectors are properly connected.

#### WIRE CLAMPING AND CABLE TYING

- 1. Be sure to clamp the wire.
- Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.





#### **REMOVE THE CRT (PICTURE TUBE)**

- Replacement of the CRT should be performed by 2 or more persons.
- · After removing the rear cover, chassis etc.,
- 1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.3).
- 2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.4.
- 3. Remove 4 screws marked by arrows with a box type screwdriver as shown in Fig.4.
- Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
- 4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.5.
- The CRT should be assembled according to the opposite sequence of its dismounting steps.
- The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.

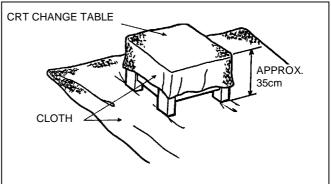


Fig. 3

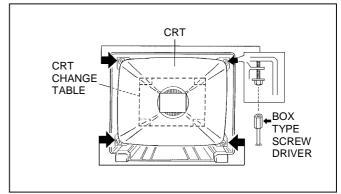


Fig. 4

# COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

• Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.6. Wipe around the anode button with clean and dry cloth. (Fig.6) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not sticks to the anode button. (Fig.7)

#### ★ Silicon grease product No. KS - 650N

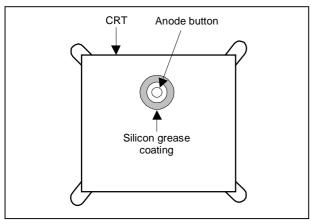


Fig. 6

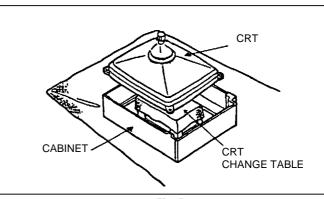


Fig. 5

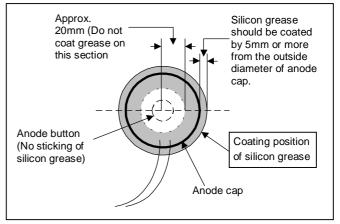


Fig. 7

### REPLACEMENT OF CHIP COMPONENT

#### **■ CAUTIONS**

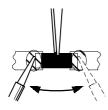
- 1. Avoid heating for more than 3 seconds.
- 2. Do not rub the electrodes and the resist parts of the pattern.
- 3. When removing a chip part, melt the solder adequately.
- 4. Do not reuse a chip part after removing it.

#### **■ SOLDERING IRON**

- 1. Use a high insulation soldering iron with a thin pointed end of it.
- 2. A 30w soldering iron is recommended for easily removing parts.

#### **■ REPLACEMENT STEPS**

- 1. How to remove Chip parts
- ♦ Resistors, capacitors, etc
  - (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

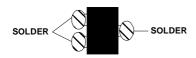


(2) Shift with tweezers and remove the chip part.



#### ♦ Transistors, diodes, variable resistors, etc

(1) Apply extra solder to each lead.



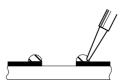
(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



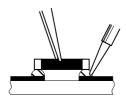
Note: After removing the part, remove remaining solder from the pattern.

#### 2. How to install Chip parts

- Resistors, capacitors, etc
  - (1) Apply solder to the pattern as indicated in the figure.

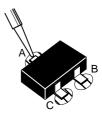


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

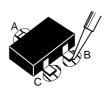


#### ◆ Transistors, diodes, variable resistors, etc

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



# **MEMORY IC REPLACEMENT**

### 1. Memory IC

This model uses a memory IC.

This memory IC stores data for proper operation of the video and deflection circuits.

When replacing, be sure to use an IC written with the initial values of data.

### 2. Memory IC replacement procedure

Procedure	Screen display
(1) Power off Switch off the power and disconnect the power plug from the wall outlet.  (2) Replace the memory IC Be sure to use memory ICs written with the initial data values.  (3) Power on Connect the power plug into the wall outlet and switch on the power.  (4) System constant check and setting	SERVICE MENII (MAIN MENII)
<ul> <li>★It must not adjust without signal.</li> <li>1) Press the SLEEP TIMER key and set SLEEP TIMER for 「0 min」.</li> <li>2) Before disappear the display of SLEEP TIMER settings, simultaneously press the DISPLAY key and VIDEO STATUS key of the remote control unit.</li> <li>3) The SERVICE MENU screen of Fig.1 will be displayed.</li> <li>4) While the SERVICE MENU is displayed, again simultaneously press the DISPLAY and VIDEO STATUS keys to display the SYSTEM CONSTANT screen in Fig.2.</li> <li>5) Refer to the SYSTEM CONSTANT table and check the setting items. If the value is different, select the setting item with the MENU UP/DOWN key and adjust the setting with the MENU LEFT/RIGHT keys. (The letters of the selected item are displayed in yellow.)</li> <li>6) After adjusting, release the MENU LEFT/RIGHT key to store the setting value.</li> <li>7) Press the EXIT key twice to return the normal screen.</li> </ul>	SERVICE MENU  PICTURE SOUND THEATER OTHERS  LOW LIGHT RF AFC VCO(CW) I2C BUS CTRL  SELECT BY OPERATE BY  Fig.1  SYSTEM CONSTANT  MODEL :**-**** CCD :YES V-CHIP :YES CAN V-CHIP :NO MN*******  SELECT BY OPERATE BY  EXIT BY  EXIT BY  FIG.2
(5) Receive channel setting Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.	
(6) User settings Check the user setting items according to Table 2. Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.	
(7) SERVICE MENU setting Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1).For setting, refer to the SERVICE ADJUSTMENT.	

TABLE 1 (System Constant setting)

	Setting item Setting constant	Setting value	
Setting item		AV-27D201(US&CA)	AV-32D201 (US&CA)/(A US&A CA)
MODEL	AV-27D501 → AV-32D501 → AV-36D501 → AV-36D201 ← AV-32D201 ← AV-27D201 ←	AV-27D201	AV-32D201
CCD	YES - NO	YES	<b>←</b>
V-CHIP	YES - NO -	YES	•
CAN V-CHIP	YES → NO —	NO	-

## TABLE 2 (User setting)

Setting item	Setting value	Setting item	Setting value			
1. Use remote controller keys						
POWER CHANNEL VOLUME INPUT HYPER SURROUND BBE	OFF CH-02 Proper sound volume TV OFF ON	DISPLAY VIDEO STATUS	OFF STANDARD			
2. Settings of MENU		•				
PICTURE ADJUST TINT COLOR PICTURE BRIGHT DETAIL NOISE MUTING SET VIDEO STATUS  SOUND ADJUST	CENTER CENTER CENTER CENTER CENTER CENTER ON ALL CENTER	INITIAL SETUP TV SPEAKER AUDIO OUT COMPONENT-IN LANGUAGE CLOSED CAPTION  AUTO TUNER SET UP CHANNEL SUMMARY V-CHIP	ON FIX NO ENG CAPTION : CC1 TEXT : T1 TUNER MODE : AIR Unnecessary to set OFF			
BASS TREBLE BALANCE MTS	CENTER CENTER CENTER STEREO	SET LOCK CODE	SET US TV RATINGS : ALL CLEAR SET MOVIE RATINGS : ALL CLEAR UNRATED : VIEW  Unnecessary to set			
CLOCK / TIMERS SET CLOCK ON/OFF TIMER	Unnecessary to set NO	SET LOCK CODE				

# SERVICE ADJUSTMENTS

### **BEFORE STARTING SERVICE ADJUSTMENT**

- 1. There are 2 ways of adjusting this TV: One is with the RREMOTE CONTROL UNIT and the other is the conventional method using adjustment part and components.
- 2. Adjustment with the remote control unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.
- 3. Make sure that AC power is turned on correctly.
- 4. Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
- 5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
- 6. Never touch any adjustment parts, which are not specified in the list for this adjustment-variable resistors, transformers, condensers, etc.
- 7. Presetting before adjustment.

Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit.

• User mode setting position

VIDEO STATUS	STANDARD
HYPER SURROUND	OFF
TINT, COLOR, PICTURE	CENTER
BRIGHT, DETAIL	
BASS, TREBLE, BALANCE	CENTER
AUDIO OUT	FIX

# **MEASURING INSTRUMENT**

- 1. DC voltmeter(or digital voltmeter)
- Oscilloscope
- 3. Signal generator ( Pattern generator ) [NTSC]
- 4. Remote control unit

#### **ADJUSTMENT ITEMS**

- ●Check of B1 POWER SUPPLY
- ●IF VCO adjustment
- ●RF AGC adjustment
- ●FOCUS adjustment
- ●DEFLECTION adjustment

V. CENTER, V. SIZE adjustment
H. POSITION, H SIZE, SIDE PIN adjustment

●VIDEO / CHROMA adjustment

WHITE BALANCE (Low light) adjustment WHITE BALANCE (High light) adjustment

SUB BRIGHT adjustment

SUB CONTRAST adjustment

SUB COLOR adjustment

SUB TINT adjustment

**DEMODULATION RATIO adjustment** 

MTS circuit adjustment

INPUT LEVEL adjustment

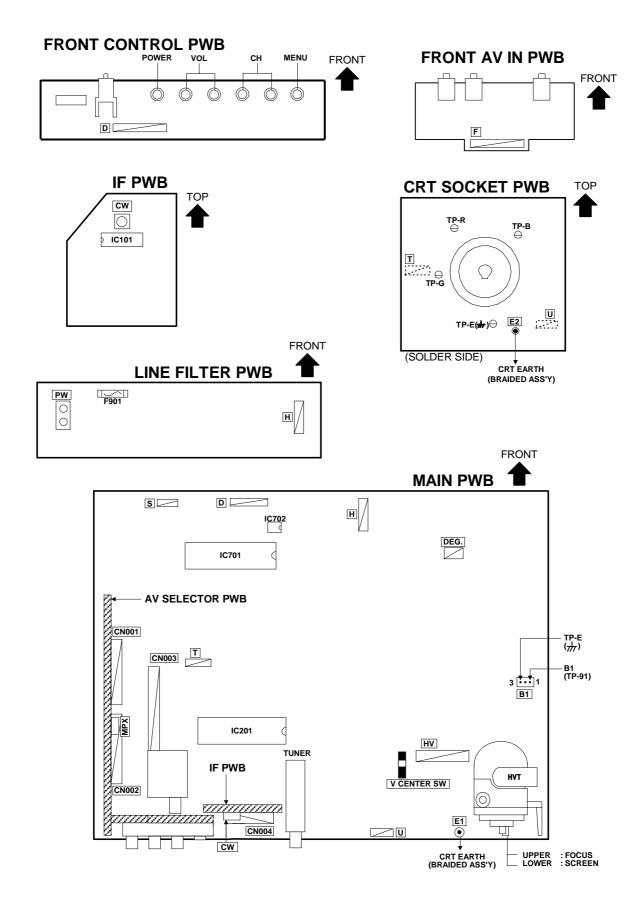
STEREO VCO adjustment

SAP VCO adjustment

FILTER check

SEPARATION adjustment

# **ADJUSTMENT LOCATIONS**



#### **BASIC OPERATION OF SERVICE MENU**

#### 1. The adjustment using SERVICE MENU

The following adjustment items use the SERVICE MENU in the series of the adjustment. The adjustments are made on the basis of the initial setting values. The adjustment values which adjust the screen to the optimum condition can be different from the initial setting values. With the SERVICE NEMU, various settings can be made, and they are broadly classified in the following items of settings.

PICTURE · · · · · Adjustment of the VIDEO/CHROMA and DEFLECTION circuits.

SOUND ..... Adjustment of the AUDIO circuit.

THEATER ..... Setting of the THEATER MODE screen.

OTHERS ...... Setting of the screen that except the THEATER MODE.

LOW LIGHT ..... Adjustment of the WHITE BALANCE (Low light) circuit.

HIGH LIGHT ..... Adjustment of the WHITE BALANCE (High light) circuit.

RF AFC ····· Verification of the RF AFC adjustment. Because of it's no requirement on the service (**Do not adjust**).

VCO (CW) · · · · · Adjustment of the IF VCO circuit.

I<sup>2</sup>C BUS CTRL ..... Display and adjust the I<sup>2</sup>C BUS CTRL condition, but it is no requirement on service.

(Do not adjust and fix on.)

# 2. Key operation of the SERVICE MENU [Enter to SERVICE MENU]

Press the **SLEEP TIMER** key and set the **SLEEP TIMER** for <code>[0 MIN]</code>.

Then press the **DISPLAY** key and the **VIDEO STATUS** key of the remote control unit at the same time. Then enter the SERVICE MENU screen shown in figure.

#### [Exit form SERVICE MENU]

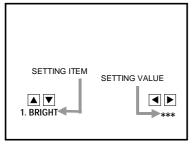
When complete the adjustment work, press the EXIT key to return to the main SERVICE MENU. And then press the EXIT key again, return to the normal screen.

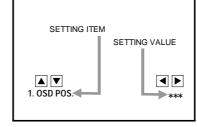
#### [Select from main menu]

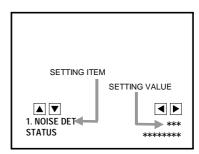
In main SERVICE MENU, press the UP or DOWN key on the remote control unit, to select any of the adjustment items. The letters of the selected items are displayed in yellow.

#### [PICTURE, SOUND and OTHERS]

- 1) Select any of **PICTURE**, **SOUND** or **OTHERS** items, then press the LEFT or RIGHT key in main SERVICE MENU, the selectable screen will be displayed as shown in figure page later.
- 2) Then the UP or DOWN key is pressed, the **PICTURE** mode screen or the **SOUND** mode screen or the **OTHERS** mode screen is displayed, and their setting can be performed.







**SERVICE MENU (MAIN MENU)** 

SOUND

OTHERS

HIGH LIGHT

I2C BUS CTRL

**EXIT BY** 

SERVICE MENU

**PICTURE** 

THEATER

**LOW LIGHT** 

SELECT BY

OPERATE BY

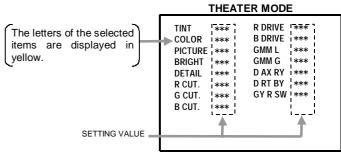
RF AFC VCO(CW)

PICTURE MODE OTHERS MODE

SOUND MODE

#### [THEATER]

- Select THEATER item, then press the LEFT or RIGHT key in main SERVICE MENU, the each screens will be displayed as shown in figure page later.
- 2) Then the settings or verifications can be performed.



THEATER MODE

#### [LOW LIGHT / HIGH LIGHT]

- 1) Select any of LOW LIGHT or HIGH LIGHT items, then press the LEFT or RIGHT key in main SERVICE MENU, the each screens will be displayed as shown in figure page later.
- 2) Then the settings or verifications can be performed.
- 3) The details of adjustments are described in the WHITE BALANCE page in ADJUSTMENT.

#### [RF AFC]

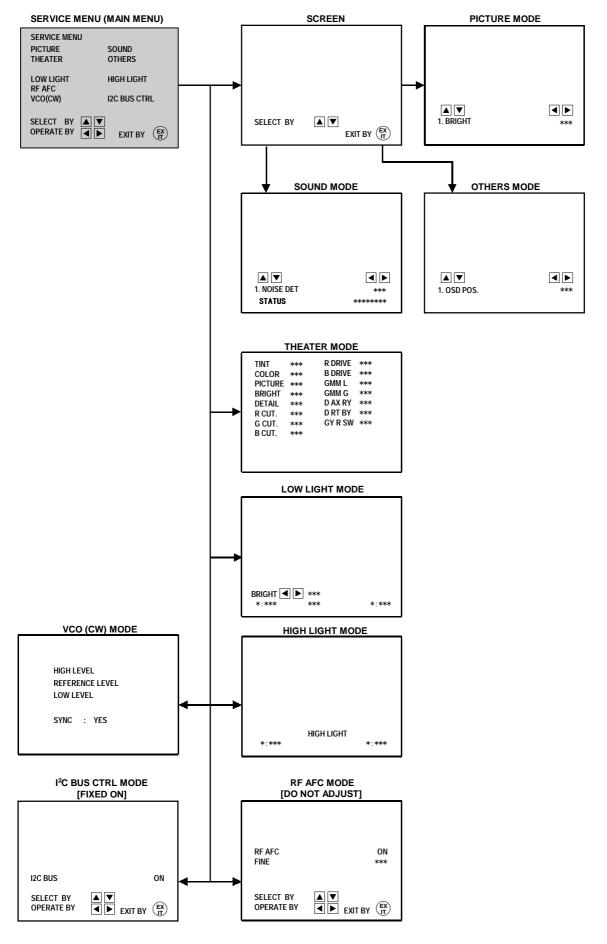
- 1) Select RF AFC item, then press the LEFT or RIGHT key in main SERVICE MENU, the each screens will be displayed as shown in figure page later.
- 2) Then the settings or verifications can be performed.

#### [VCO(CW)]

- 1) Select the **VCO(CW)** item, press the LEFT or RIGHT key in main SERVICE MENU, the screen will be displayed as shown in figure page later.
- 2) Then UP or DOWN key is pressed, the VCO(CW) mode screen is displayed, and the VCO(CW) setting can be performed.
- 3) The details of adjustments are described in the WHITE BALANCE page in ADJUSTMENT.

#### [Adjustment steps]

- 1) Select the setting item, and enter to its mode.
- 2) Adjust its values. When the key is released, the setting values will be stored (memorized).
- Returns to the previous screen.



# **INITIAL SETTING VALUE OF SERVICE MENU**

1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.

2. Do not change the initial setting values of the setting (adjustment) items not listed in "ADJUSTMENT".

			Initial setting value		
No	Setting (Adjustment) item	Variable range	AV-32D201 (US & CA)	AV-32D201 (A US & A CA)	AV-27D201 (US & CA)
1.	BRIGHT	0~255	127	127	127
2.	PICTURE	0~127	85	85	80
3.	COLOR	0~127	55	55	55
4.	TINT	0~127	70	70	70
5.	TV DETAIL	0~127	28	28	30
6.	EXT BRIGHT	±25	-1	-1	±0
7.	EXT PICT.	±25	±0	±0	±0
8.	EXT COLOR	±25	-4	-4	-3
9.	EXT TINT	±25	-4	-4	-4
10.	EXT DETAIL	0~127	30	30	30
11.	CMP BRIGHT	±25	-3	-3	-1
12.	CMP PICT.	±25	±0	±0	±0
13.	CMP COLOR	0~127	88	88	88
14.	CMP TINT	0~127	54	54	53
15.	CMP DETAIL	0~127	30	30	30
16.	TV APA DL	0/1	0	0	0
17.	EXT APA DL	0 / 1	0	0	0
18.	CMP APA DL	0 / 1	0	0	0
19.	DC TRAIN	0/1	1	1	1
20.	COLOR TRCK TV PR/OVR	0/1	0	0	0
21.	EXT PR/OVR	0~7	7	7	7
22. 23.	CMP PR/OVR	0~7	6	6	6
		0~7	6	6	6
24.	B ST GAIN	0~15	10	10	10
25.	W GMM LVL	0~15	4	4	4
26.	W GMM GAIN	0~15	5	5	5
27.	B ST SL PS	0~15	2	2	2
28.	W CHARA CR	0~15	3	3	3
29.	W CHARA SL	0~31	9	9	9
30.	DEMO AX RY	0~31	17	17	17
31.	DEMO RT BY	0~63	30	30	30
32.	GY RT SW	0~3	2	2	2
33.	CMP D AX R	0~31	12	12	12
34.	CMP D RT B	0~63	33	33	30
35.	CMP GY SW	0~3	2	2	2
36.	CMP R CUT	±50	-9	-9	-4
37.	CMP G CUT	±50	±0	±0	±0
38.	CMP B CUT	±50	-9	-9	-4
39.	CMP R DRV	±99	±0	±0	±0
40.	CMP B DRV	±99	±0	±0	±0

	Setting (Adjustment) item		Initial setting value		
No		Variable range	AV-32D201 (US & CA)	AV-32D201 (A US & A CA)	AV-27D201 (US & CA)
41.	V SIZE	0~127	33	33	47
42.	V S CR	0~63	15	15	20
43.	V LIN	0~63	50	50	50
44.	H POSI	0~63	11	11	13
45.	H SIZE	0~63	33	33	18
46.	SIDE PIN	0~63	28	28	25
47.	TRAPEZ	0~63	38	38	37
48.	EW COR TOP	0~125	1	1	2
49.	EW COR BTM	0~125	3	3	4
50.	BLK SW	0/1	0	0	0
51.	TV AFC1	0~3	2	2	2
52.	EXT AFC1	0~3	2	2	2
53.	CUT OFFSET	0~127	20	20	20
54.	DRV OFFSET	0~63	22	22	22
55.	AGC ADJ	0~127	65	65	65

#### SOUND MODE

Na	Catting (Adicates and items	otting (Adjustment) item		ting value
No	Setting (Adjustment) item	Variable range	32 inch	27 inch
1.	NOISE DET.	0 / 1	1	1
2.	IN LEVEL	0~63	15	15
3.	FH MONITOR	0/1	0	0
4.	STEREO VCO	0~63	30	30
5.	PILOT CAN.	0/1	0	0
6.	FILTER	0~63	30	30
7.	LOW SEP.	0~63	28	28
8.	HI SEP.	0~63	25	25
9.	5FH MON.	0/1	0	0
10.	SAP VCO	0~63	27	27
11.	IN GAIN	0/1	0	0
12.	FIL. OFFSET	0~10	0	0
13.	BBE BASS	±15	-1	-1
14.	BBE TRE	±15	-1	-1

### • THEATER MODE

Na	Setting (Adjustment) item	Variable renge	Initial setting value	
No		Variable range	32 inch	27 inch
1.	TINT	±20	-1	-1
2.	COLOR	±20	-6	-6
3.	PICTURE	±20	-21	-21
4.	BRIGHT	±20	-2	-2
5.	DETAIL	±15	-12	-12
6.	R CUT	±10	±0	±0
7.	G CUT	±10	±0	±0
8.	B CUT	±10	±0	±0
9.	R DRIVE	-99 <b>~+</b> 50	+43	+37
10.	B DRIVE	-99 <b>~+</b> 50	-56	-43
11.	GMM L	±15	±0	±0
12.	GMM G	±15	±0	±0
13.	D AX RY	±31	-10	-10
14.	D RT BY	±63	+7	+7
15.	GY RT SW	±3	-1	-1

### • OTHERS MODE

No	Setting (Adjustment) item	Variable range	Initial setting value		
NO		variable range	32 inch	27 inch	
1.	OSD POS.	0~7	2	2	
2.	CCD POS.	0~15	3	3	
3.	EOSEL	0 / 1	1	1	
4.	MAIN 1M WT	0~15	0	0	
5.	MENU COLOR	-30~0	-10	-10	
6.	MENU PICT.	-30~0	-10	-10	
7.	MENU BRI.	-30~0	-10	-10	

#### • LOW LIGHT MODE

No	Setting (Adjustment) item	Variable range	Initial setting value All models
1.	R CUTOFF	(0~255) × 4	80
2.	R CUT SW	0~3	1
3.	G CUTOFF	0~255	50
4.	B CUTOFF	(0~255) × 4	80
5.	B CUT SW	0~3	1

#### • HIGH LIGHT MODE

No	Setting (Adjustment) item	Variable range	Initial setting value All models
1.	R DRIVE	(0~127) × 4	80
2.	R DRV SW	0/1	0
3.	B DRIVE	(0~127)×2	80
4.	B DRV SW	0/1	0

#### • RF AFC MODE

Setting (Adjustment) item	Variable range	Initial setting value All models
RF AFC FINE	ON/OFF -77~+77	ON DO NOT ADJUST

#### • I2C BUS CTRL MODE

Setting (Adjustment) item	Variable range	Initial setting value All models
I2C BUS	ON/OFF	[Fixed ON]

AV-27D201 AV-32D201

# **■** ADJUSTMENTS

## **B1 POWER SUPPLY**

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 POWER SUPPLY	DC Voltmeter Signal generator	B1 ( [B1] Connector [1] pin) (TP-91) TP-E( ± ) ( [B1] Connector [3] pin)		1. Input the black and white signal (color off). 2. Connect the DC voltmeter to [B1] connector [1] pin (TP-91) and TP-E(录) (B1 connector [3] pin). 3. Confirm that the voltage is DC134V±2V.

### **ADJUSTMENT OF IF. VCO**

Item	Measuring instrument	Test point	Adjustment part	Description
IF VCO adjustment	Remote control unit  HIGH LEVEL REFERENCE LEVE LOW LEVEL SYNC : YES	EL <b>4</b>	CW TRANSF. [IF PWB]  YELLOW	<ul> <li>Under normal conditions, no adjustment is required. And it must not adjust without signal.</li> <li>Receive the NTSC broadcast. (Use channels without offset frequency).</li> <li>Select the VCO (CW) mode from the SERVICE MENU.</li> <li>Confirm that the color change from 「HIGH LEVEL」 to 「LOW LEVEL」 by CW transf., and check the 「SYNC: YES」.</li> <li>Adjust until 「REFFERENCE LEVEL」 mark turns yellow. And then confirm that the 「SYNC: YES」 again.</li> </ul>

#### **ADJUSTMENT OF RF AGC**

Item	Measuring instrument	Test point	Adjustment part	Description
RF. AGC	Remote		No.55 AGC ADJ	Receive the broadcast.
adjustment	control unit			2. Select No.55 AGC ADJ of the PICTURE MODE.
				3. Press the MUTING key and turn off color.
				4. With the MENU LEFT key, let down the value to appear th noise on the screen picture.
				5. Then increase the value not to see the noise on the screen ( that time, not to increase the value too much).
				<ol><li>Change to other channels and make sure that there is r irregularity.</li></ol>
				7. Press the MUTING key and get color on.

### **ADJUSTMENT OF FOCUS**

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator		FOCUS VR [built-in HVT]	<ol> <li>Input the cross-hatch signal.</li> <li>While looking at the screen, adjust the FOCUS VR to the vertical and horizontal lines will be clear and in fine detail.</li> <li>Make sure that the picture is in focus even when the screen gets darkened.</li> </ol>

## ADJUSTMENT OF DEFLECTION CIRCUIT

Remote control unit screen center marker. The screen center marker is positioned at both side of the vertical edge of vertical center.  3. Adjust the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen top to 92% with the vertical screen size of the screen siz	Item	Measuring instrument	Test point	Adjustment part		Description
Screen size (A%)  Picture size (100%)  Screen center marker  No.44 H POSITION H. SIZE SIDE PIN adjustment  Remote control unit  A%  AV-27D201  Picture size (100%)  Screen center marker  1. Input the cross-hatch signal. 2. Adjust H. POSITION of left-right center with No.44 H POSI. 3. With No.45 H SIZE, adjust the screen horizontal size to A' as shown in the table bellow and figure above. 4. Adjust the vertical line to straight with No.46 SIDE PIN.	V. SIZE	Signal generator Remote		V. CENTER SW	2.	Adjust the V.CENTER SW so that the horizontal line of the vertical center on the cross-hatch screen is agreement with the screen center marker. The screen center marker is positioned at both side of the vertical edge of vertical center.  Adjust the vertical screen size of the screen top to 92% with the No.41 V.SIZE of the PICTURE SERVICE (Bottom of
H. POSITION H. SIZE SIDE PIN adjustment  Remote control unit  A%  AV-27D201  No.44 H POSITION No.44 H POSITION No.45 H SIZE No.46 SIDE PIN AV-27D201  No.44 H POSITION No.44 H POSITION No.45 H SIZE No.46 SIDE PIN A Input the cross-hatch signal. 2. Adjust H. POSITION of left-right center with No.44 H POSI. 3. With No.45 H SIZE, adjust the screen horizontal size to AV-adjust the vertical line to straight with No.46 SIDE PIN.	size			(100%)	mar	
H. SIZE SIDE PIN adjustment  Remote control unit  No.45 H SIZE No.46 SIDE PIN  A%  AV-27D201  No.45 H SIZE No.46 SIDE PIN  No.45 H SIZE No.46 SIDE PIN  A Mo.45 H SIZE No.46 SIDE PIN  2. Adjust H. POSITION of left-right center with No.44 H POSI.  3. With No.45 H SIZE, adjust the screen horizontal size to A as shown in the table bellow and figure above.  4. Adjust the vertical line to straight with No.46 SIDE PIN.						
AV-27D201 90%	H. SIZE SIDE PIN	generator Remote		No.45 H SIZE	2. 3.	Adjust H. POSITION of left-right center with <b>No.44 H POSI</b> . With <b>No.45 H SIZE</b> , adjust the screen horizontal size to <b>A%</b> as shown in the table bellow and figure above.
AV-32D201 / A 92%	AV	/-27D201	+			
	AV	7-32D201 / A	92	%		

## ADJUSTMENT OF VIDEO / CHROMA CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (Low Light) adjustment	Signal generator  Remote control unit		R CUTOFF G CUTOFF B CUTOFF SCREEN VR	<ol> <li>Input the black and white signal ( color off ).</li> <li>Select the [LOW LIGHT] MODE from the SERVICE MENU.</li> <li>Set the initial setting value of "R CUTOFF", "G CUTOFF" and "B CUTOFF" with the (a) to (a) keys of the remote control unit.</li> <li>Display a single horizontal line by pressing the (a) key of the remote control unit.</li> <li>Turn the screen VR all the way to the left.</li> <li>Turn the screen VR gradually to the right from the left until either one of the red, blue or green colors appears faintly.</li> <li>Adjust the two colors of CUTOFF which did not appear until the single horizontal line that is displayed becomes white using the (a) to (a) keys of the remote control unit.</li> <li>Turn the screen VR until the single horizontal line is displayed faintly.</li> <li>Press the (a) key to cancel the single horizontal line mode.</li> </ol>
L	BRIGHT PARTY STATES	*:** B CUT(	_	Remote Control Unit key assign  H.LINE ON H.LINE OFF EXIT  1 2 3  R CUTOFF A G CUTOFF B CUTOFF A  4 5 6  R CUTOFF G CUTOFF B CUTOFF F  7 8 9
WHITE BALANCE (High Light) adjustment	Signal generator  Remote control unit	GH LIGHT	G DRIVE B DRIVE	1. Input the black-and-white signal ( color off ).  2. Select the [HIGH LIGHT] MODE in the SERVICE MENU.  3. Set the initial setting value of "R DRIVE" and "B DRIVE" with the ④, ⑥, ⑦ and ⑨ keys of the remote control unit.  4. Adjust the screen until it becomes white using the ④, ⑥, ⑦ and ⑨ keys of the remote control unit.  ● The ③ EXIT key is the cancel key for the WHITE BALANCE.  Remote Control Unit key assign ① key : H.LINE ON ② key : H.LINE OFF ③ key : EXIT ④ key : R DRIVE ▲ ⑥ key : B DRIVE ▲ ⑦ key : R DRIVE ▼

Item	Measuring instrument	Test point	Adjustment part	Description
SUB CONTRAST adjustment	Remote control unit		No.2 PICTURE	1. Receive the broadcast. 2. Select No.2 PICTURE of the PICTURE MODE. 3. Set the initial setting value of the No.2 PICTURE with the LEFT/RIGHT key of the MENU. 4. If the contrast is not the best with the initial setting value, make fine adjustment of the No.2 PICTURE until you get the optimum contrast.
SUB COLOR adjustment	Remote control unit		No.3 COLOR	<ol> <li>Receive the broadcast.</li> <li>Select No.3 COLOR of the PICTURE MODE.</li> <li>Set the initial setting value of the No.3 COLOR with the LEFT/RIGHT key of the MENU.</li> <li>If the color is not the best with the Initial setting value, make fine adjustment of the No.3 COLOR until you get the optimum color.</li> </ol>
	Signal generator Oscilloscope Remote control unit	TP-R TP-E(#) [CRT SOCKET PWB]	No.3 COLOR	[ Method of adjustment using measuring instrument ]  1. Input the full field color bar signal (75% white).  2. Select No.3 COLOR of the PICTURE MODE.  3. Set the initial setting value of the No.3 COLOR with the LEFT/RIGHT key of the MENU.  4. Connect the oscilloscope between TP-R and TP-E.  5. Adjust COLOR and bring the value of (A) in the illustration to the voltage shown in the table bellow( Vw-R).
	Cy Cy	G B	_	Voltage between W-R  AV-27D201 +32V
	W Y Mg R ↑		A) (-) (-) (+)	AV-32D201

Item	Measuring instrument	Test point	Adjustment part	Description
SUB TINT adjustment	Remote control unit		No.4 TINT	1. Receive the broadcast. 2. Select No.4 TINT of the PICTURE MODE. 3. Set the initial setting value of the No.4 TINT with the LEFT/RIGHT key of the MENU. 4. If the tint is not the best with the initial setting value, make fine adjustment of the No.4 TINT until you get the optimum tint.
	Signal generator Oscilloscope Remote control unit	TP-R TP-E(#) [CRT SOCKET PWB]	No.4 TINT	[ Method of adjustment using measuring instrument ]  1. Input the full field color bar signal (75% white). 2. Select No.4 TINT of the PICTURE MODE. 3. Set the initial setting value of the No.4 TINT with the LEFT/RIGHT key of the MENU. 4. Connect the oscilloscope between TP-R and TP-E. 5. Adjust TINT and bring the value of (B) in the illustration to the voltage shown in the table bellow (Vw-Y).
w	Υ			Voltage between W-Y  AV-27D201 +18V  AV-32D201 / A +20V

Item	Measuring instrument	Test point	Adjustment part	Description
EMODULA- ION RATIO djustment	Remote control unit		No.31 DEMO RT BY	<ol> <li>Receive the broadcast.</li> <li>Select No.31 DEMO RT BY of the PICTURE MODE.</li> <li>Set the initial setting value of the No.31 DEMO RT BY we the LEFT/RIGHT key of the MENU.</li> <li>If the blue color gain against the red color is not the best we the initial setting value, make fine adjustment of the No. DEMO RT BY until you get the optimum gain.</li> <li>DEMODULATION RATIO is the adjustment of the blue condemodulation gain against the red color.</li> </ol>
	Signal generator Oscilloscope Remote control unit	TP-B TP-E(#) [CRT SOCKET PWB]	No.31 DEMO RT BY	<ol> <li>[ Method of adjustment using measuring instrument ]</li> <li>Input the full field color bar signal (75% white).</li> <li>Select No.31 DEMO RT BY of the PICTURE MODE.</li> <li>Set the initial setting value of the No.31 DEMO RT BY we the LEFT/RIGHT key of the MENU.</li> <li>Connect the oscilloscope between TP-B and TP-E.</li> <li>Adjust DEMODURATION RATIO and bring the value of (C) in the illustration to the voltage shown in the table bellow ( Vw-B ).</li> </ol>
	У W су	G R Mg B	(C) (-) OV (+)	Voltage between W-B  AV-27D201 +14V  AV-32D201 / A +18V

## **ADJUSTMENT OF MTS CIRCUIT**

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL check	Remote control unit		No.2 IN LEVEL	<ol> <li>Select the No.2 IN LEVEL of the SOUND MODE.</li> <li>Verify that the No.2 IN LEVEL is set at its initial setting value.</li> </ol>
MTS STEREO VCO adjustment	Signal generator Frequency counter Remote control unit	R OUT [AUDIO OUT]	No.3 FH MONITOR No.4 STEREO VCO	<ol> <li>Input the RF signal (non-modulated sound signal) from the antenna terminal.</li> <li>Select the No.3 FH MONITOR of SOUND MODE, and change the setting value from 0 to 1.</li> <li>Connect the frequency counter to R out RCA pin of the AUDIC OUT.</li> <li>Select the No.4 STEREO VCO.</li> <li>Set the initial setting value of the No.4 STEREO VCO with the LEFT/RIGHT key of the menu.</li> <li>Adjust the No.4 STEREO VCO so that the frequency counte will display 15.73kHz±0.1kHz.</li> <li>Select the No.3 FH MONITOR of the SOUND MODE, and reset the setting value from 1 to 0.</li> </ol>
MTS SAP VCO adjustment	Signal generator Remote control unit	[MPX] Connector [4] pin SDA [3] pin GND [AV SELECTOR PWB] R OUT [AUDIO OUT]	No.9 5FH MON. No.10 SAP VCO	<ol> <li>Receive the RF signal (non-modulated sound signal) from the antenna terminal.</li> <li>Connect between pin [4] of [MPX] connector and GND (Pin [3] of [MPX] connector) through 1MΩ resistor.</li> <li>Select the No.9 5FH MON. of the SOUND MODE, and rese the setting value from 0 to 1.</li> <li>Connect the frequency counter to R out RCA pin of the AUDIC OUT.</li> <li>Select the No.10 SAP VCO.</li> <li>Set the initial setting value of No.10 SAP VCO with the LEFT/RIGHT key of the menu.</li> <li>Adjust the No.10 SAP VCO so that the frequency counter widisplay 78.67kHz±0.5kHz.</li> <li>Select the No.9 5FH MON. of the SOUND MODE, and reset the setting value from 1 to 0.</li> </ol>
MTS FILTER check	Remote control unit		No.6 FILTER	Select the <b>No.6 FILTER</b> of the SOUND MODE.     Verify that the <b>No.6 FILTER</b> is set at its initial setting value.

Item	Measuring instrument	Test point	Adjustment part	Description	
MTS SEPARATION adjustment	TV audio multiplex signal generator Oscilloscope Remote control unit	L OUT R OUT [AUDIO OUT]	No.7 LOW SEP. No.8 HI SEP.	<ol> <li>Input the stereo L signal (300Hz) from the TV audio multiples signal generator to the antenna terminal.</li> <li>Connect an oscilloscope to L OUT pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal.</li> <li>Change the connection of the oscilloscope to R OUT pin of the AUDIO OUT, and enlarge the voltage axis.</li> <li>Select the No.7 LOW SEP. of the SOUND MODE.</li> <li>Set the initial setting value of the No.7 LOW SEP. with the LEFT/RIGHT key of the menu.</li> <li>Adjust the No.7 LOW SEP. so that the stroke element of the 300Hz signal will become minimum.</li> </ol>	
L-Channel signal waveform		R-Cha crossta Minimum	nnel alk portion	7. Change the signal to 3kHz, and similarly adjust the <b>No.8 HI SEP.</b>	

# **PURITY, CONVERGENCE**

#### **PURITY ADJUSTMENT**

- 1. Demagnetize CRT with the demagnetizer.
- 2. Loosen the retainer screw of the deflection yoke.
- 3. Remove the wedges.
- 4. Input a green raster signal from the signal generator, and turn the screen to green raster.
- 5. Move the deflection yoke backward.
- 6. Bring the long lug of the purity magnets on the short lug and position them horizontally. (Fig.2)
- Adjust the gap between two lugs so that the GREEN RASTER will come into the center of the screen. (Fig.3)
- 8. Move the deflection yoke forward, and fix the position of the deflection yoke so that the whole screen will become green.
- Insert the wedge to the top side of the deflection yoke so that it will not move.
- 10. Input a crosshatch signal.
- 11. Verify that the screen is horizontal.
- 12. Input red and blue raster signals, and make sure that purity is properly adjusted.

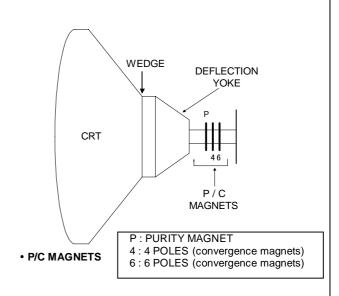
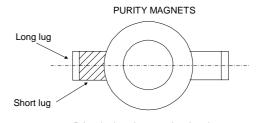
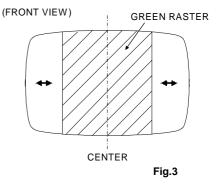


Fig.1



Bring the long lug over the short lug and position them horizontally.

Fig.2

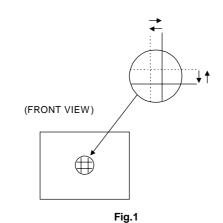


#### STATIC CONVERGENCE ADJUSTMENT

- 1. Input a crosshatch signal.
- 2. Using 4-pole convergence magnets, overlap the red and blue lines in the center of the screen (Fig.1) and turn them to magenta (red/blue).
- 3. Using 6-pole convergence magnets, overlap the magenta (red/blue) and green lines in the center of the screen and turn them to white.
- 4. Repeat 2 and 3 above, and make best convergence.

#### DYNAMIC CONVERGENCE ADJUSTMENT

- 1. Move the deflection yoke up and down and overlap the lines in the periphery. (Fig. 2)
- 2. Move the deflection yoke left to right and overlap the lines in the periphery. (Fig. 3)
- 3. Repeat 1 and 2 above, and make best convergence.
- After adjustment, fix the wedge at the original position.
   Fasten the retainer screw of the deflection yoke.
   Fix the 6 magnets with glue.



(FRONT VIEW)

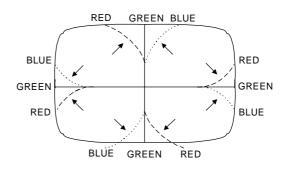


Fig.2

(FRONT VIEW)

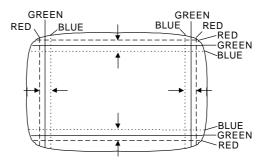


Fig.3

# HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

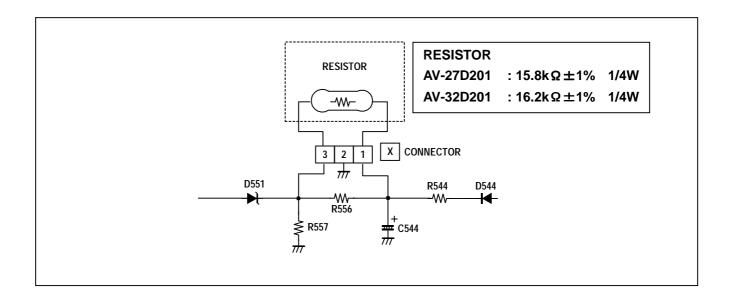
#### 1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit.

This circuit shall be checked to operate correctly.

#### 2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the power sw ON.
- (2) As shown in figure bellow, set the resistor (between [X] connector [1] & [3] ).
- (3) Make sure that the screen picture disappears.
- (4) Temporarily unplug the power cord.
- (5) Remove the resistor (between [X] connector [1] & [3] ).
- (6) Again plug the power cord, make sure that the normal picture is displayed on the screen.



AV-27D201 AV-32D201

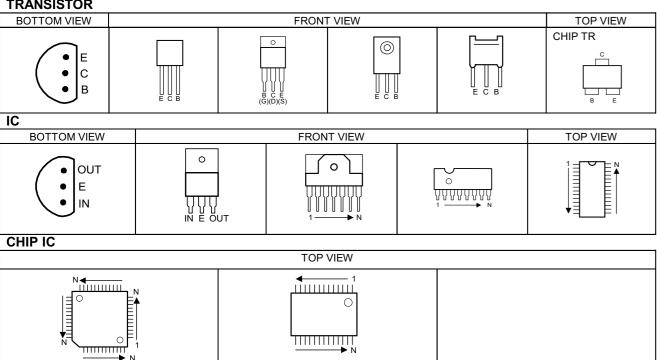
AV-27D201 AV-32D201

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### SEMICONDUCTOR SHAPES

#### **TRANSISTOR**



AV-27D201(US&CA) AV-32D201(US&CA)

# AV-32D201<sub>(A US&A CA)</sub> STANDARD CIRCUIT DIAGRAM

# ■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ▲ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

#### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal : Color bar signal

(2)Setting positions each knob/button and

variable resistor :Original setting position

when shipped

(3)Internal resistance of tester :DC 20k Ω/V

⇒ 20µS/div (4)Oscilloscope sweeping time

⇒ 5mS/div

:Others ⇒ Sweeping time is

specified

(5)Voltage values :All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

#### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

# 4.INDICATIONS ON THE CIRCUIT DIAGRAM

# (1)Resistors

● Resistance value No unit

:[Ω]: :[KΩ] :[MΩ]

■Rated allowable power

No indication :1/10 [W] Others :As specified

■Type

No indication :Carbon resistor OMR :Oxide metal film resistor MFR :Metal film resistor MPR :Metal plate resistor UNFR :Uninflammable resistor FR :Fusible resistor

\*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

#### (2)Capacitors

Capacitance value

1 or higher :[pF] :[µF] less than 1

Withstand voltage

No indication :DC50[V]

AC indicated :AC withstand voltage [V] Others :DC withstand voltage [V]

\*Electrolytic Capacitors

47/50[Example]:Capacitance value [µF]/withstand voltage[V]

■Type No indication :Ceramic capacitor MY :Mylar capacitor MM :Metalized mylar capacitor PP :Polypropylene capacitor MPP :Metalized polypropylene capacitor MF :Metalized film capacitor TF :Thin film capacitor :Bipolar electrolytic capacitor TAN :Tantalum capacitor (3)Coils No unit :[µH]:

:As specified

:Only test point display

(4) Power Supply

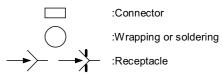
Others

\_\_\_\_\_:9V \_\_\_\_\_:5V

\*Respective voltage values are indicated

(5)Test point :Test point

(6)Connecting method



#### (7)Ground symbol

:LIVE side ground

:ISOLATED(NEUTRAL) side ground

:EARTH ground :DIGITAL ground

### **5.NOTE FOR REPAIRING SERVICE**

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (1) side GND and the ISOLATED(NEUTRAL): ( , ) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

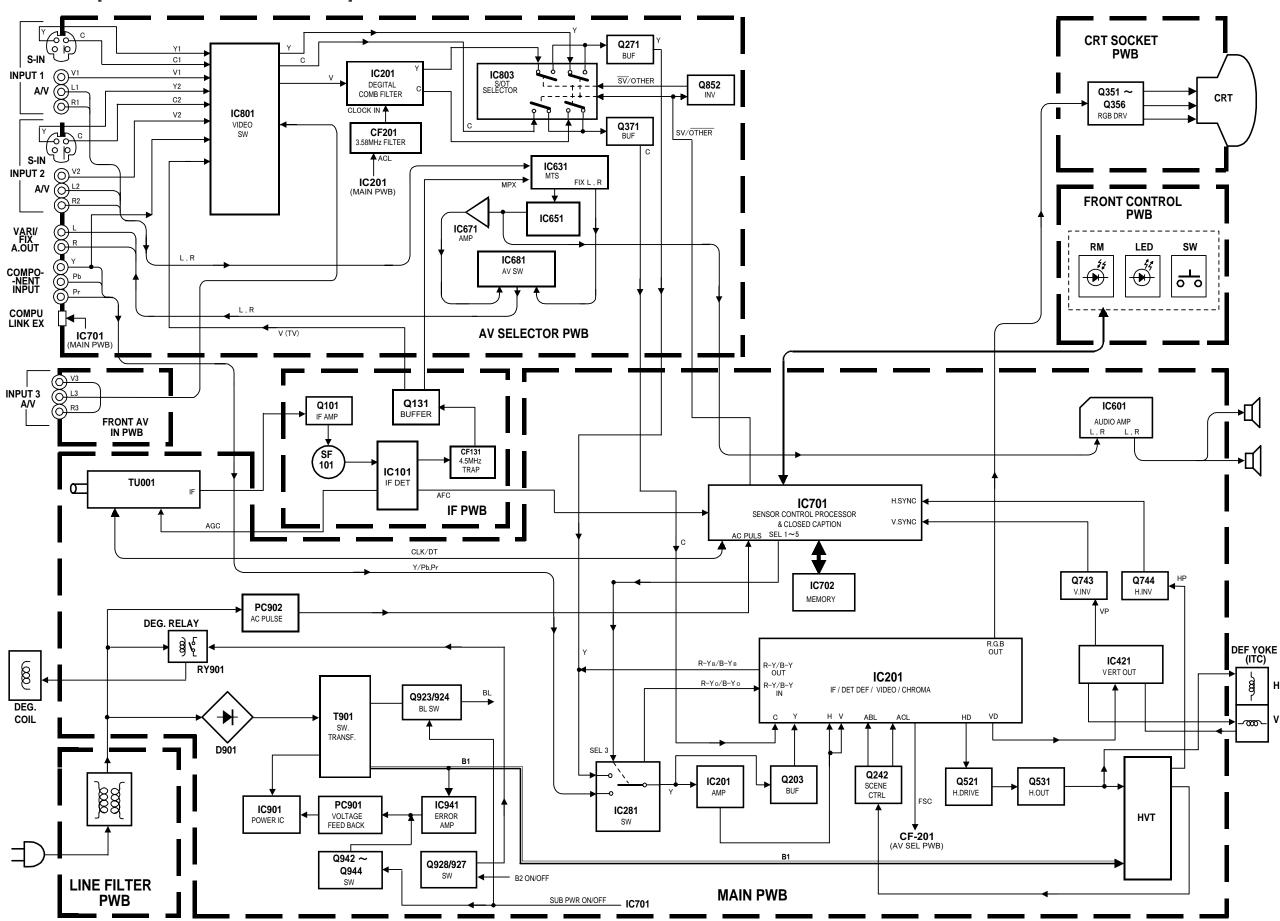
(2)Do not short between the LIVE side GND and

ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

♦ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

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# BLOCK DIAGRAM [ AV-27D201 / AV-32D201 / AV-32D201A ]

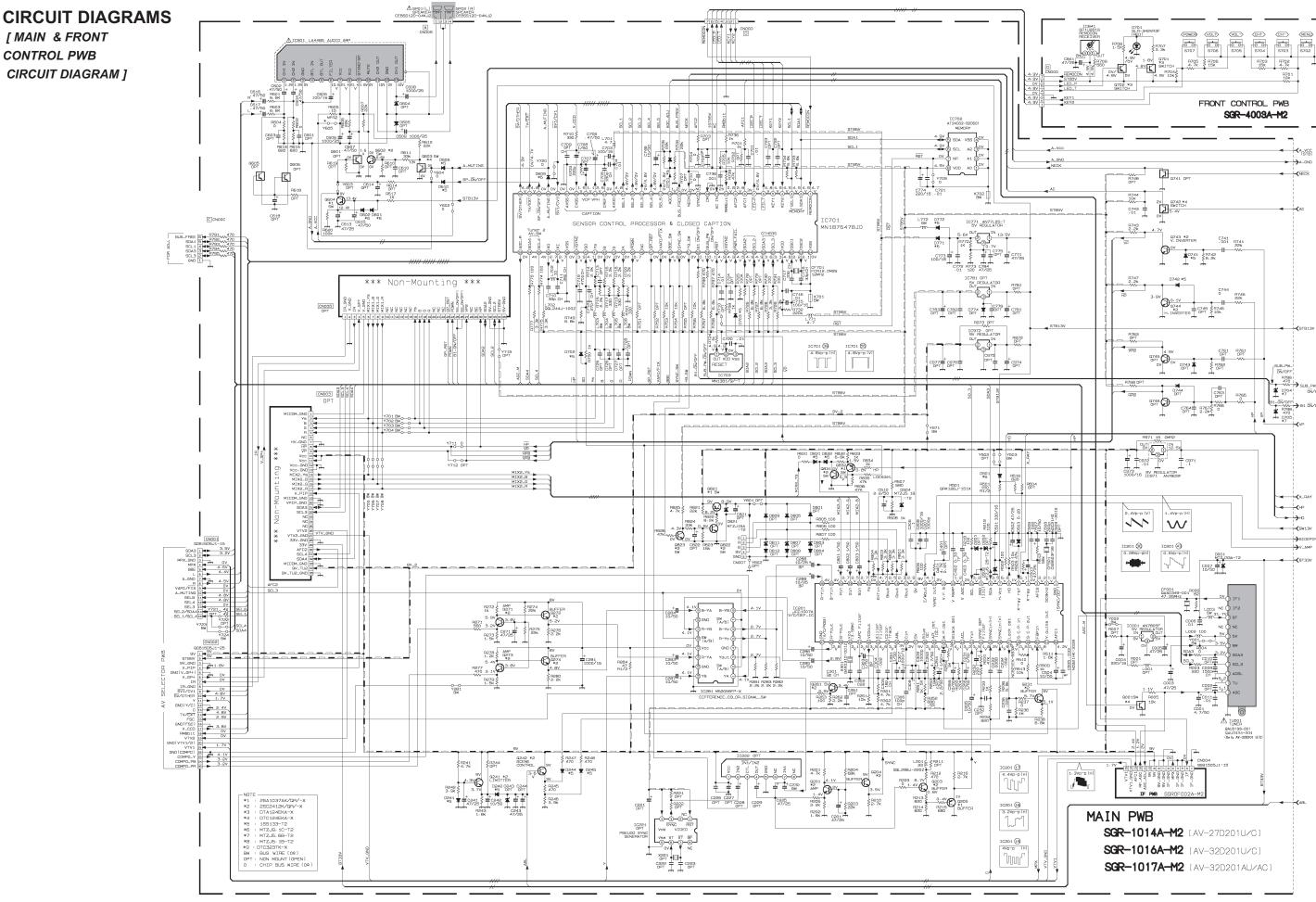


AV-27D201 AV-27D201 AV-32D201 AV-32D201

[MAIN & FRONT

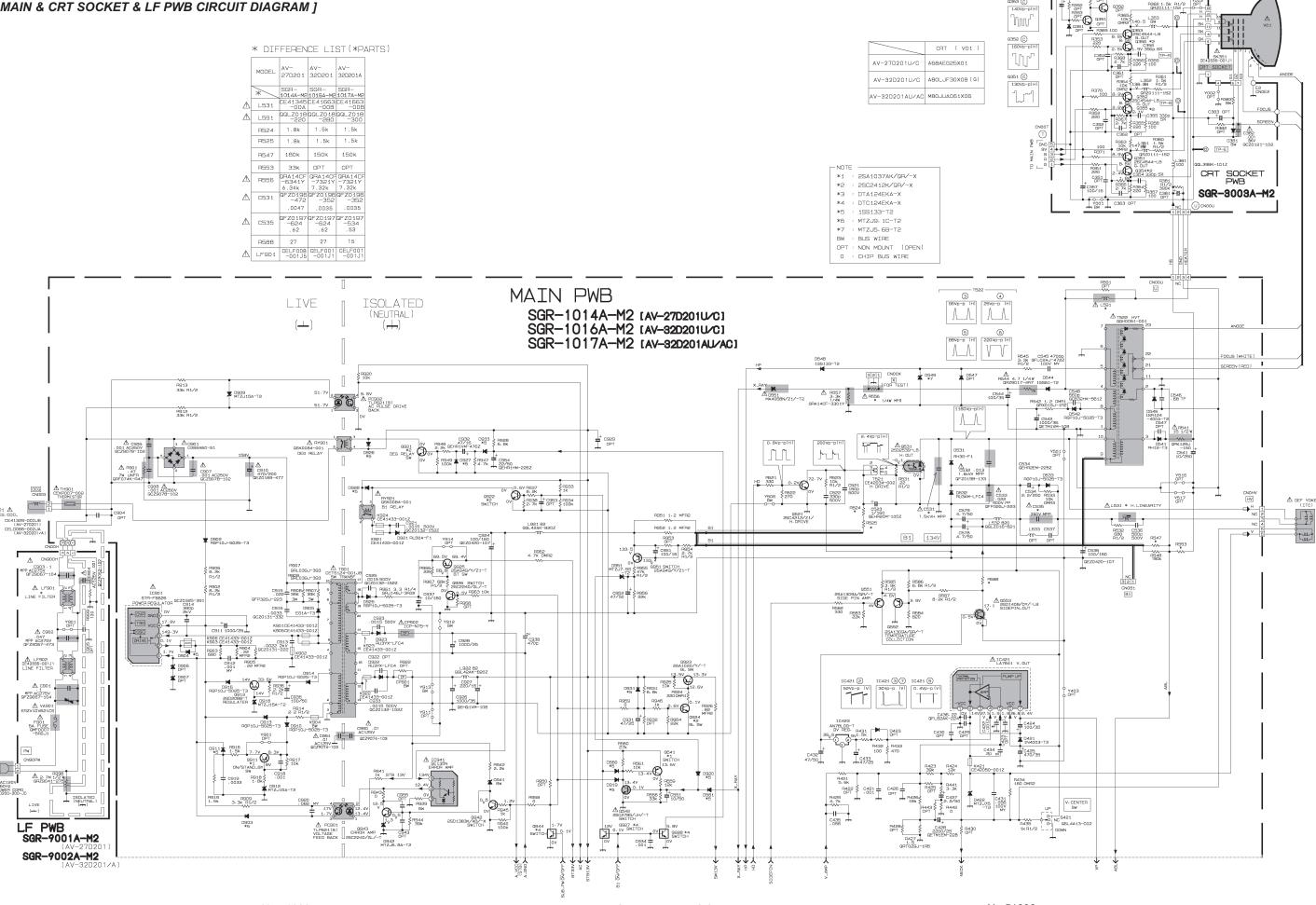
**CIRCUIT DIAGRAM 1** 

**CONTROL PWB** 



AV-27D201 AV-27D201 AV-32D201 AV-32D201

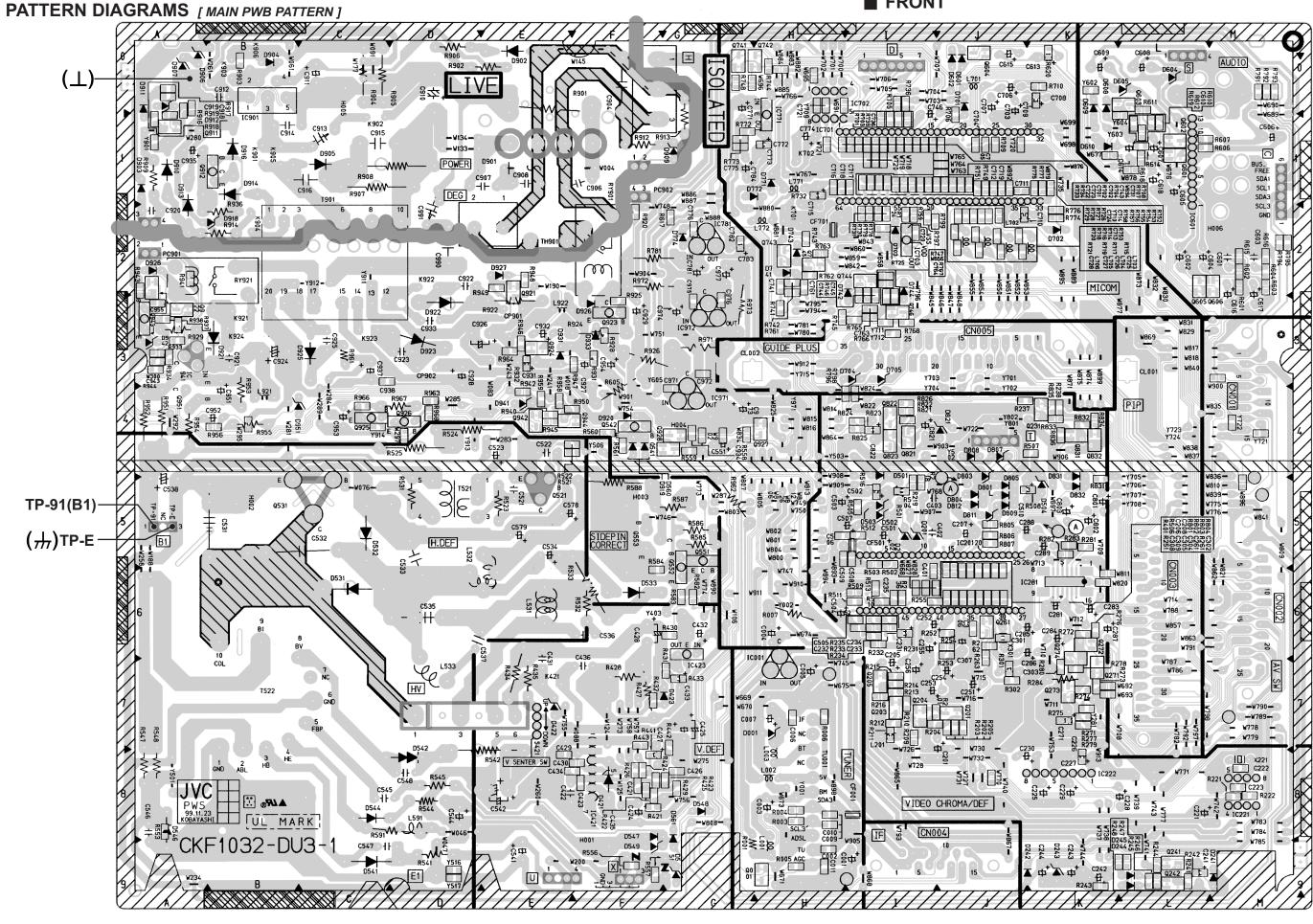
#### [ MAIN & CRT SOCKET & LF PWB CIRCUIT DIAGRAM ]

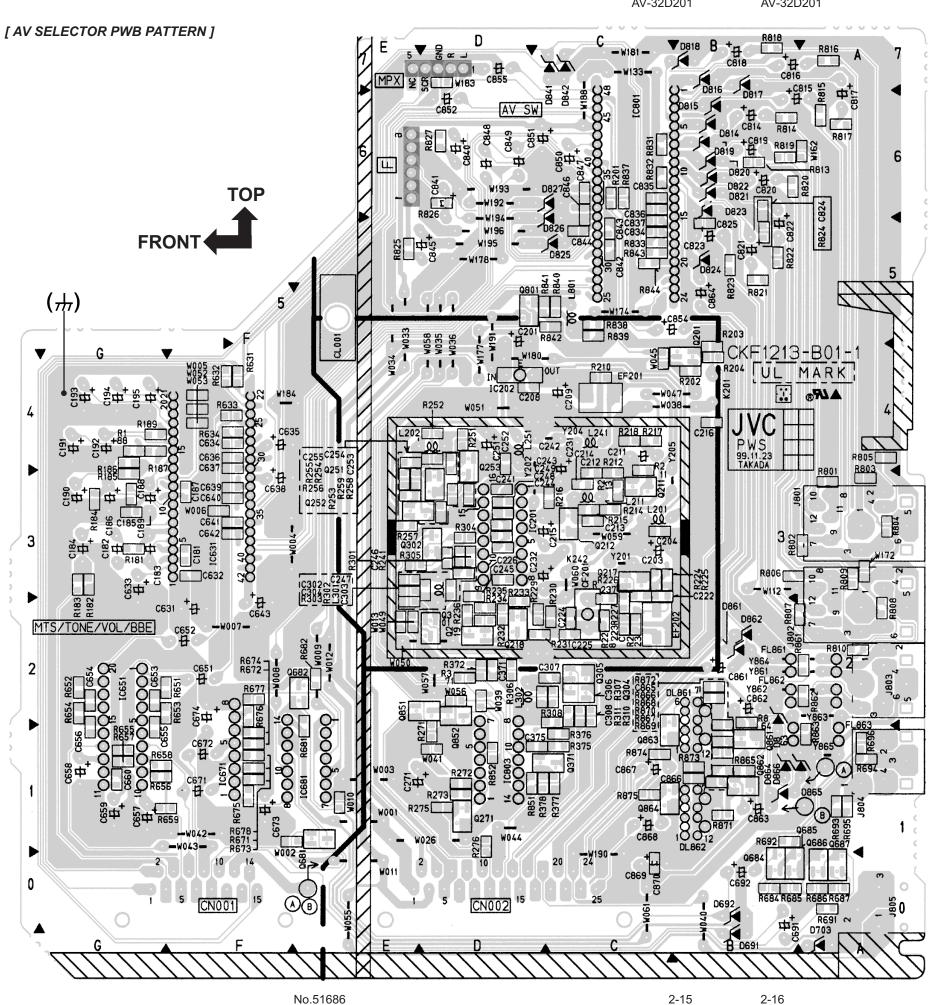


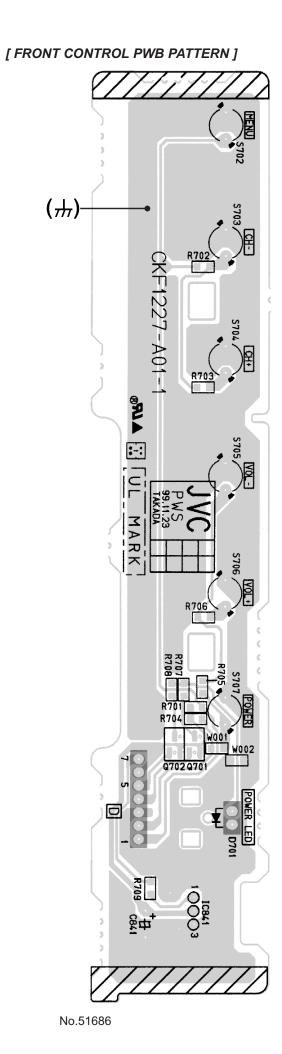
AV-27D201

AV-27D201



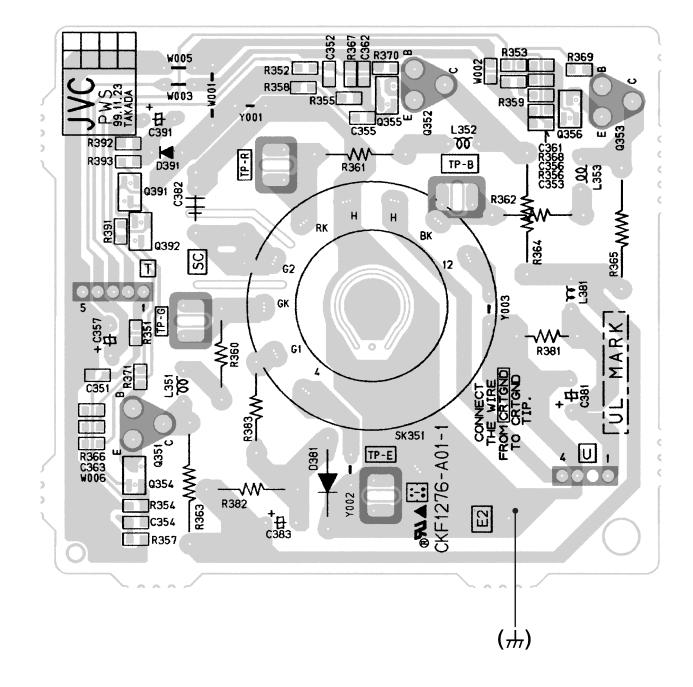




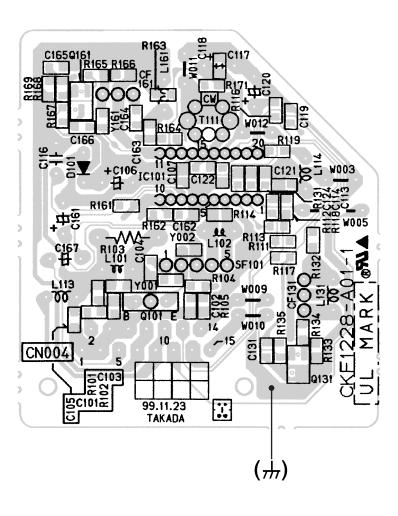




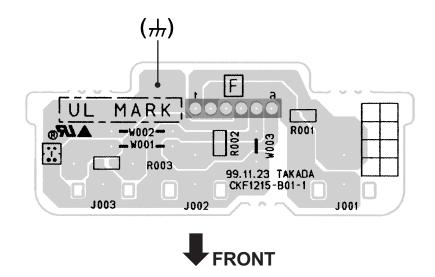


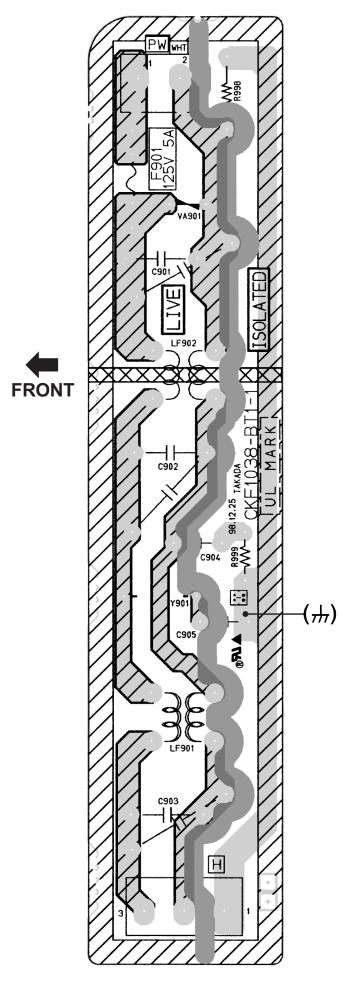






[ LF PWB PATTERN ]





**■CHANNEL CHART (US)** 

	■CHANNEL CHART (US)						
	DE	BAND		NNEL	TUNER		
TV	CATV	5,5	REAL	DISP.	BAND		
		VL	02 03 04 05 06		I		
0	0	O 07 08 09 VH 10 11 12		8 9 0 1	п		
			A B	14 15	I		
	0	MID	C D E F G H I	16 17 18 19 20 21			
		SUPER	J K L M N O P Q R S T U > W	23 24 25 26 27 28 29 30 31 32 33 34 35 36	п		
×		0	0		W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11	37 38 39 40 41 42 43 44 45 46 47	
		HYPER	W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	IV		
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70			

MC	DDE		CHAI	NNEL	TUNER		
TV	CATV	BAND			BAND		
×	O	ULTRA	REAL           W+35           W+36           W+37           W+38           W+39           W+40           W+41           W+42           W+43           W+46           W+47           W+50           W+51           W+55           W+56           W+57           W+63           W+64           W+65           W+66           W+67           W+70           W+71           W+72           W+73           W+76           W+77           W+78           W+80           W+81           W+82           W+83           W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 119 119 119 119 119 119 119 119	IV		
		SUB MID	A-8 A-4 A-3 A-2 A-1	01 96 97 98 99	I		
0	×	UHF					
TOTAL 180CH { VHF 124CH { UHF 56CH							
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.							

**■CHANNEL CHART (CA)** 

■CHANNEL CHART (CA)					
	DE	BAND		NNEL	TUNER
TV	CATV	BAND	REAL	DISP.	BAND
		VL	0 0 0	2 3 4 5 6	I
0	0	VH	0 0 1 1 1	7 8 9 0 1 2 3	
		MID	 Аворегон —	14 15 16 17 18 19 20 21	п
			J K M N O	23 24 25 26 27 28	
		SUPER	PQR%TU>S	29 30 31 32 33 34 35 36	
×	0	HYPER	W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11 W+12 W+13 W+14 W+15 W+16 W+17 W+20 W+21 W+20 W+21 W+22 W+23 W+24 W+25 W+28 W+29	37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Ш
		ULTRA	W+30 W+31 W+32 W+33 W+34	66 67 68 69 70	IV

	DE	BAND		NNEL	TUNER BAND						
TV	CATV		REAL DISP.		BAND						
			W+35 W+36	71 72							
			W+37	73							
			W+38 74								
			W+39	75							
			W+40	76 77							
			W+41 W+42	77 78							
			W+43	79							
			W+44	80							
			W+45	81							
			W+46	82							
			W+47 W+48	83 84							
			W+49	85							
			W+50	86							
			W+51	87							
			W+52	88							
			W+53 W+54	89 90							
			W+55	90							
			W+56	92							
			W+57	93							
			W+58	94							
		ULTRA	W+59 W+60	100 101	IV						
		ULTRA	W+61	101	10						
×			W+62	103							
			W+63	104							
			W+64	105							
			W+65	106							
			W+66 W+67	107 108							
			W+68	109							
									W+69	110	
			W+70	111							
			W+71 W+72	112 113							
			W+73	114							
			W+74	115							
			W+75	116							
			W+76	117							
			W+77	118							
			W+78 W+79	119 120							
			W+80	121							
			W+81	122							
			W+82	123							
			W+83 W+84	124 125							
			A-8	01	I						
		SUB	A-4	96							
		MID	A-3	97							
			A-2	98	П						
			A-1	99 4							
0	×	UHF			IV						
		J	6	9							
		TOTAL		ш							
{ VHF 124CH UHF 56CH											
			MAY BE	REQUIRE	ED.						

No.51686 2-21 2-22 No.51686

## **PARTS LIST**

### **CAUTION**

- The parts identified by the  $\triangle$  symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

#### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS		CAPACITORS
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	М САР.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	ММ САР.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	СН С САР.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

	TOLERANCES								
F	G	J	К	М	N	R	Н	Z	Р
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% 0%

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TI TW BOARD AGO T	00
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## **USING CRT, P.W. BOARD & REMOTE CONTROL UNIT**

Model	I	П	ш
P.W.B ASS'Y	AV-27D201(US&CA)	AV-32D201 (US&CA)	AV-32D201 (A US&A CA)
CRT (ITC TUBE)	A68AEG25X01	A80LJF30X08(G)	M80JUA061X06
MAIN PWB	SGR-1014A-M2	SGR-1016A-M2	SGR-1017A-M2
CRT SOCKET PWB	SGR-3003A-M2	<b>←</b>	<b>←</b>
FRONT CONTROL PWB	SGR-4003A-M2	•	•
AV SELECTOR PWB	SGR-8004A-M2	•	•
FRONT AV IN PWB	SGR-8301A-M2	←	<b>←</b>
LINE FILTER PWB	SGR-9001A-M2	SGR-9002A-M2	←
IF PWB	SGR0F002A-M2	-	<b>←</b>
REMOTE CONTROL UNIT	RM-C383-1A	<b>—</b>	<b>←</b>

## I . AV-27D201(US&CA)

### **EXPLODED VIEW PARTS LIST**

⚠ Ref.No.	Part No.	Part Name	Description
↑ V01 ↑ L01 ↑ T1522 ↑ 1 2 3 ↑ 4 ↑ 5	A68AEG25X01 CE41329-00DJB QQH0051-001 LC10276-003C-A CHGB0015-0B CHGB0016-0C CEBSS12D-04KJ2 LC10363-001D-A	ITC TUBE(C) DEGAUSSING COIL HVT FRONT CABINET BRAIDED WIRE SUB BRAIDED WIRE SPEAKER CHASSIS BASE	Inc.DY,PC,WED.  (×2)SP01,SP02
△ 6 7 △ 8 △ 9 △ 10 11 △ 13 △ 13	LC10364-001C-A QYSBSB3010Z QMPD200-200-JC LC20106-001C-A LC10277-001G-A QYSBSFG4016Z CM23034-001-A CM22999-A01-A	TERMINAL BOARD TAPPING SCREW POWER CORD CORD CLAMP REAR COVER TAPPING SCREW RATING LABEL RATING LABEL	(×4) Within LINE FILTER PWB (×12) AV-27D201(US) AV-27D201(CA)
15 16 17 18 19	LC30191-002A-A CM48006-006-C LC20217-001B-A LC20409-001C-A CM48229-00A	REMOCON LENS JVC MARK CONTROL KNOB DOOR DOOR LATCH	

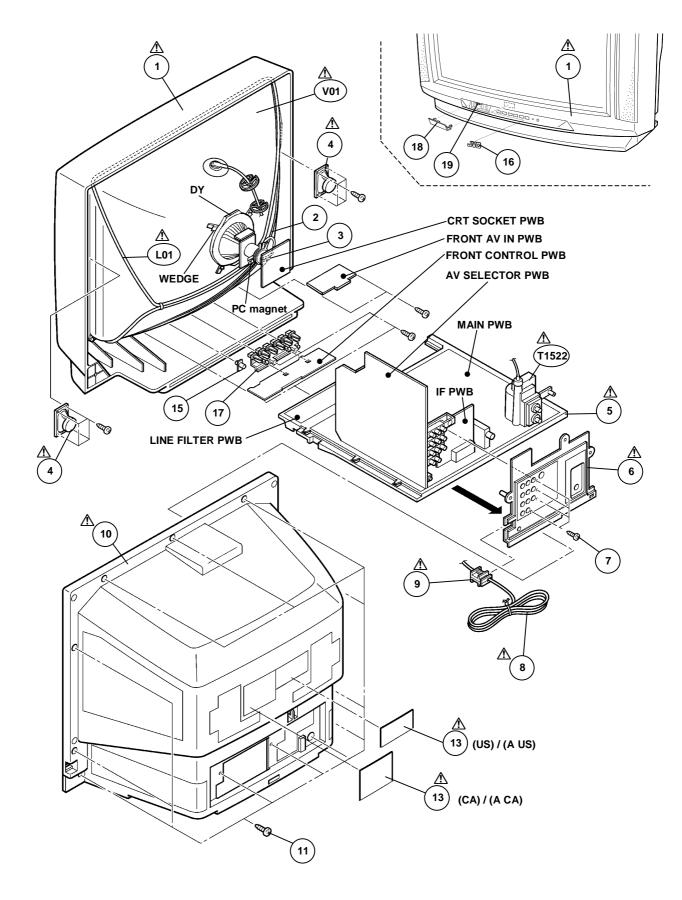
## II . AV-32D201(US&CA) / III . AV-32D201(A US & A CA)

### **EXPLODED VIEW PARTS LIST**

⚠ Ref.No.	Part No.	Part Name	Description
↑ V01 ↑ V01 ↑ L01 ↑ T1522 ↑ 1 2 3 ↑ 4	A80LJF30X08(G) M80JUA061X06 CELD066-002JA QQH0051-001 LC10307-003C-A CHGB0015-0E CHGB0016-0D CEBSS12D-04KJ2	ITC TUBE(C) PICTURE TUBE(C) DEGAUSSING COIL HVT FRONT CABINET BRAIDED WIRE SUB BRAIDED WIRE SPEAKER	Inc.DY,PC,WED. AV-32D201(US) / AV-32D201(CA) Inc.DY,PC,WED. AV-32D201(A US) / AV-32D201(A CA)  (×2)SP01,SP02
△ 5 △ 6 7 △ 8 △ 9 △ 10 11 △ 13 △ 13 △ 13 △ 13 15 16 17 18 19	LC10363-001D-A LC10364-003A-A QYSBSB3010Z QMPD200-200-JC LC20106-001C-A LC10308-001E-A QYSBSFG4016Z CM23034-001-A CM22999-A01-A LC30191-002A-A CM48006-006-C LC20217-001B-A LC20409-001C-A CM48229-00A	CHASSIS BASE TERMINAL BOARD TAPPING SCREW POWER CORD CORD CLAMP REAR COVER TAPPING SCREW RATING LABEL RATING LABEL REMOCON LENS JVC MARK CONTROL KNOB DOOR DOOR	(×4) Within LINE FILTER PWB  (×12) AV-32D201(US) / AV-32D201(A US) AV-32D201(CA) / AV-32D201(A CA)

## I . AV-27D201(US&CA) / II . AV-32D201(US&CA) / III . AV-32D201(A US & A CA)

#### **EXPLODED VIEW**



## I . AV-27D201(US&CA)

### PRINTED WIRING BOARD PARTS LIST

### MAIN P.W. BOARD ASS'Y (SGR-1014A-M2)

∆ Symbol No.	Part No.	Part Name	Description	∆ Symbol No.	Part No.	Part Name	Description
RESI	STOR			RES	ISTOR		
R1003 R1004 R1005 R1006 R1201 R1202 R1203 R1204	NRSA02J-221X NRSA02J-0R0X NRSA02J-103X NRSA02J-820X NRSA02J-472X NRSA02J-152X NRSA02J-223X NRSA02J-683X	MG R MG R MG R MG R MG R MG R MG R	220Ω 1/10W J 0.0Ω 1/10W J 10kΩ 1/10W J 82Ω 1/10W J 4.7kΩ 1/10W J 1.5kΩ 1/10W J 22kΩ 1/10W J 68kΩ 1/10W J	R1503 R1505 R1506 R1507 R1508-09 R1510 R1511 R1512	NRSA02J-103X NRSA02J-473X NRSA02J-101X NRSA02J-681X NRSA02J-102X NRSA02J-0R0X NRSA02J-182X NRSA02J-563X	MG R MG R MG R MG R MG R MG R MG R	10kΩ 1/10W J 47kΩ 1/10W J 100Ω 1/10W J 680Ω 1/10W J 1kΩ 1/10W J 0.0Ω 1/10W J 1.8kΩ 1/10W J 56kΩ 1/10W J
R1205 R1209 R1210 R1212 R1213-14 R1215 R1216 R1218-19	NRSAO2J-222X NRSAO2J-0ROX NRSAO2J-272X NRSAO2J-471X NRSAO2J-821X NRSAO2J-681X NRSAO2J-272X NRSAO2J-101X	MG R MG R MG R MG R MG R MG R MG R	2.2kΩ 1/10W J 0.0Ω 1/10W J 2.7kΩ 1/10W J 470Ω 1/10W J 820Ω 1/10W J 680Ω 1/10W J 2.7kΩ 1/10W J 100Ω 1/10W J	R1513 R1516 R1521 R1522 R1523 R1524-25 R1531 R1532	NRSA02J-103X NRSA02J-821X NRSA02J-331X NRSA02J-271X QRE121J-103Y QRL039J-182 QRE121J-220Y QRE121J-681Y	MG R MG R MG R C R OM R C R C R	10kΩ 1/10W J 820Ω 1/10W J 330Ω 1/10W J 270Ω 1/10W J 10kΩ 1/2W J 1.8kΩ 3W J 22Ω 1/2W J 680Ω 1/2W J
R1231 R1232 R1233 R1234 R1235 R1236 R1237 R1238	NRSA02J-473X NRSA02J-221X NRSA02J-102X NRSA02J-821X NRSA02J-562X NRSA02J-105X NRSA02J-0R0X NRSA02J-682X	MG R MG R MG R MG R MG R MG R MG R	47kΩ 1/10W J 220Ω 1/10W J 1kΩ 1/10W J 820Ω 1/10W J 5.6kΩ 1/10W J 1MΩ 1/10W J 0.0Ω 1/10W J 6.8kΩ 1/10W J	R1533 A R1541 R1542 A R1544 R1545 R1547-48 R1553 A R1556	QRL039J-103 QRK129J-150 QRX01GJ-1R2 QR29017-4R7 QRE121J-332Y QRE121J-184Y NRSA02J-333X QRA14CF-6341Y	OM R C R MF R FUSI.RESISTOR C R C R MG R MF R	$\begin{array}{ccccc} 10k\Omega & 3W & J \\ 15\Omega & 1/2W & J \\ 1.2\Omega & 1W & J \\ 4.7 & \Omega & 1/4W & J \\ 3.3k\Omega & 1/2W & J \\ 180k\Omega & 1/2W & J \\ 33k\Omega & 1/10W & J \\ 6.34k\Omega & 1/4W & F \\ \end{array}$
R1241 R1242 R1243 R1245 R1246 R1247-48 R1251 R1252	NRSA02J-472X NRSA02J-392X NRSA02J-182X NRSA02J-471X NRSA02J-392X NRSA02J-471X NRVA02D-102X NRVA02D-681X	MG R MG R MG R MG R MG R MF R MF R	4.7kΩ 1/10W J 3.9kΩ 1/10W J 1.8kΩ 1/10W J 470Ω 1/10W J 3.9kΩ 1/10W J 470Ω 1/10W J 1kΩ 1/10W D 680Ω 1/10W D	⚠ R1557 R1558 R1559 R1560 R1561 R1582 R1583 R1584	QRA14CF-3301Y NRSA02J-333X NRSA02J-123X NRSA02J-273X NRSA02J-103X NRSA02J-331X NRSA02J-331X NRSA02J-321X	MF R MG R MG R MG R MG R MG R MG R	3.3kΩ 1/4W F 33kΩ 1/10W J 12kΩ 1/10W J 27kΩ 1/10W J 10kΩ 1/10W J 330Ω 1/10W J 22kΩ 1/10W J 820Ω 1/10W J
R1253 R1254 R1255 R1261 R1262 R1263 R1271 R1272	NRSA02J-183X NRSA02J-105X NRSA02J-124X NRSA02J-103X NRSA02J-222X NRSA02J-101X NRSA02J-561X NRSA02J-102X	MG R MG R MG R MG R MG R MG R MG R	18kΩ 1/10W J 1MΩ 1/10W J 120kΩ 1/10W J 10kΩ 1/10W J 2.2kΩ 1/10W J 100Ω 1/10W J 560Ω 1/10W J 1kΩ 1/10W J	R1585 R1586 R1587 R1588 R1601 R1602 R1603 R1604	QRE121J-392Y QRE121J-682Y QRE121J-822Y QRL039J-270 NRSA02J-682X NRSA02J-0R0X NRSA02J-0R0X NRSA02J-0R0X	C R C R C R OM R MG R MG R MG R	3.9kΩ 1/2W J 6.8kΩ 1/2W J 8.2kΩ 1/2W J 27Ω 3W J 6.8kΩ 1/10W J 0.0Ω 1/10W J 6.8kΩ 1/10W J 0.0Ω 1/10W J
R1273 R1274-75 R1276 R1277 R1278 R1279 R1280-83 R1284	NRSA02J-152X NRSA02J-223X NRSA02J-222X NRSA02J-471X NRSA02J-122X NRSA02J-152X NRSA02J-222X QRE121J-470Y	MG R MG R MG R MG R MG R MG R MG R	1.5k\(\Omega\) 1/10\(\W) \(J\) 2.2k\(\Omega\) 1/10\(\W) \(J\) 2.2k\(\Omega\) 1/10\(\W) \(J\) 470\(\Omega\) 1/10\(\W) \(J\) 1.2k\(\Omega\) 1/10\(\W) \(J\) 2.2k\(\Omega\) 1/10\(\W) \(J\) 47\(\Omega\) 1/2\(\W) \(J\)	R1605 R1606-07 R1611 R1612 R1615-16 R1617 R1620 R1701	QRT029J-R15 NRSA02J-223X NRSA02J-333X NRSA02J-223X NRSA02J-821X NRSA02J-102X NRSA02J-104X NRSA02J-104X NRSA02J-102X	MF R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 0.15\Omega & 2W & J \\ 22k\Omega & 1/10W & J \\ 33k\Omega & 1/10W & J \\ 22k\Omega & 1/10W & J \\ 820\Omega & 1/10W & J \\ 1k\Omega & 1/10W & J \\ 100k\Omega & 1/10W & J \\ 1k\Omega & 1/10W & J \\ \end{array}$
R1301-02 R1401 R1421 R1423 R1424 R1426 R1427 R1429	NRSA02J-472X NRVA02D-472X NRSA02J-562X NRSA02J-393X NRSA02J-123X NRSA02J-183X QRT029J-1R5 NRSA02J-472X	MG R MF R MG R MG R MG R MF R MF R	$\begin{array}{llllllllllllllllllllllllllllllllllll$	R1704 R1705 R1706 R1708 R1710 R1714-16 R1717 R1718	NRSA02J-OROX NRSA02J-103X NRSA02J-223X NRSA02J-223X NRSA02J-331X NRSA02J-222X NRSA02J-331X NRSA02J-222X	MG R MG R MG R MG R MG R MG R MG R	0.0Ω 1/10W J 10kΩ 1/10W J 22kΩ 1/10W J 22kΩ 1/10W J 330Ω 1/10W J 2.2kΩ 1/10W J 330Ω 1/10W J 2.2kΩ 1/10W J
R1431 R1432 R1433 R1434 R1435 R1441 R1442 R1501	NRSA02J-152X NRSA02J-101X NRSA02J-471X QRL029J-181 QRE121J-102Y NRSA02J-332X NRSA02J-0R0X QRK126J-151X	MG R MG R MG R OM R C R MG R MG R C R	1.5kΩ 1/10W J 100Ω 1/10W J 470Ω 1/10W J 180Ω 2W J 1kΩ 1/2W J 3.3kΩ 1/10W J 0.0Ω 1/10W J 150Ω 1/2W J	R1719 R1720 R1721 R1724 R1725 R1726-27 R1728-29 R1730-31	NRSA02J-331X NRSA02J-222X NRSA02J-331X NRSA02J-102X NRSA02J-104X NRSA02J-682X NRSA02J-332X NRSA02J-101X	MG R MG R MG R MG R MG R MG R MG R	330Ω 1/10W J 2.2kΩ 1/10W J 330Ω 1/10W J 1kΩ 1/10W J 100kΩ 1/10W J 6.8kΩ 1/10W J 3.3kΩ 1/10W J 100Ω 1/10W J
R1502	NRSA02J-101X	MG R	100Ω 1/10W J	R1732	NRSAO2J-224X	MG R	220kΩ 1/10W J

⚠	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
	R1733-34 R1736 R1739 R1741 R1742 R1743 R1744 R1745	NRSA02J-682X NRSA02J-102X NRSA02J-473X NRSA02J-223X NRSA02J-822X NRSA02J-222X NRSA02J-103X NRSA02J-223X	MG R MG R MG R MG R MG R MG R MG R	6.8kΩ 1/10W J 1kΩ 1/10W J 47kΩ 1/10W J 22kΩ 1/10W J 8.2kΩ 1/10W J 2.2kΩ 1/10W J 10κΩ 1/10W J 22kΩ 1/10W J
	R1746 R1747 R1749 R1750 R1753-54 R1756 R1757-58 R1759 R1765-66 R1767	NRSA02J-103X NRSA02J-682X NRSA02J-102X NRSA02J-103X NRSA02J-103X NRSA02J-103X NRSA02J-682X NRSA02J-02X NRSA02J-0ROX NRSA02J-0ROX NRSA02J-222X	MG R MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 10 k\Omega & 1/10W & J \\ 2.2 k\Omega & 1/10W & J \\ 6.8 k\Omega & 1/10W & J \\ 1 k\Omega & 1/10W & J \\ 10 k\Omega & 1/10W & J \\ 10 k\Omega & 1/10W & J \\ 6.8 k\Omega & 1/10W & J \\ 1 k\Omega & 1/10W & J \\ 0.0\Omega & 1/10W & J \\ 2.2 k\Omega & 1/10W & J \\ \end{array}$
	R1772 R1773 R1774 R1775 R1776 R1777 R1791-99 R1801-04	NRSA02J-102X NRSA02J-121X NRSA02J-101X NRSA02J-332X NRSA02J-101X NRSA02J-332X NRSA02J-471X NRSA02J-471X NRSA02J-332X	MG R MG R MG R MG R MG R MG R MG R	1kΩ 1/10W J 120Ω 1/10W J 100Ω 1/10W J 3.3KΩ 1/10W J 100Ω 1/10W J 3.3KΩ 1/10W J 470Ω 1/10W J 3.3kΩ 1/10W J 3.3kΩ 1/10W J
	R1805-07 R1821 R1822 R1823 R1824 R1825 R1826 R1831	NRSA02J-101X NRSA02J-223X NRSA02J-822X NRSA02J-153X NRSA02J-333X NRSA02J-472X NRSA02J-473X NRSA02J-0R0X	MG R MG R MG R MG R MG R MG R MG R	100Ω 1/10W J 22kΩ 1/10W J 8.2kΩ 1/10W J 15kΩ 1/10W J 33kΩ 1/10W J 4.7kΩ 1/10W J 47kΩ 1/10W J 0.0Ω 1/10W J
Δ	R1832 R1833-34 R1835-36 R1901 R1902 R1903 R1904-05 R1906	NRSA02J-682X NRSA02J-102X NRSA02J-473X QRF074K-R47 QRE12IJ-822Y NRSA02J-681X QRT029J-R22 QRE12IJ-822Y	MG R MG R UNF R C R MG R MF R C R	6.8kΩ 1/10W J 1kΩ 1/10W J 47kΩ 1/10W J 0.47 Ω 7W K 8.2kΩ 1/2W J 680Ω 1/10W J 0.22Ω 2W J 8.2kΩ 1/2W J
	R1907-08 R1909 R1912-13 R1914 R1916 R1917 R1918 R1919	QRL039J-393 QRE121J-332Y QRE121J-333Y QRE121J-2R2Y NRSA02J-152X NRSA02J-103X NRSA02J-182X NRSA02J-182X NRSA02J-152X	OM R C R C R C R MG R MG R MG R	39kΩ 3W J 3.3kΩ 1/2W J 33kΩ 1/2W J 2.2Ω 1/2W J 1.5kΩ 1/10W J 1.8kΩ 1/10W J 1.8kΩ 1/10W J 1.5kΩ 1/10W J
	R1920 R1924 R1925 R1926 R1928 R1931 R1933 R1934	NRSA02J-103X QRG01GJ-221 NRSA02J-103X QRT029J-R82 NRSA02J-682X NRSA02J-682X NRSA02J-102X NRSA02J-104X	MG R OM R MG R MF R MG R MG R MG R	10kΩ 1/10W J 220Ω 1W J 10kΩ 1/10W J 0.82Ω 2W J 6.8kΩ 1/10W J 1kΩ 1/10W J 1kΩ 1/10W J 100kΩ 1/10W J
	R1936 R1937 R1938 R1940 R1941 R1942 R1943 R1944	QRE121J-222Y NRSA02J-822X NRSA02J-272X NRSA02J-104X NRSA02J-102X NRSA02J-222X NRSA02J-0ROX NRSA02J-393X	C R MG R MG R MG R MG R MG R MG R	2.2kΩ 1/2W J 8.2kΩ 1/10W J 2.7kΩ 1/10W J 100kΩ 1/10W J 1kΩ 1/10W J 2.2kΩ 1/10W J 0.0Ω 1/10W J 39kΩ 1/10W J
	R1945-46 R1947 R1948 R1949 R1951-52 R1954	NRSA02J-102X NRSA02J-472X NRSA02J-222X NRSA02J-104X QRT029J-1R2 QRE121J-272Y	MG R MG R MG R MG R MF R C R	$\begin{array}{cccc} 1k\Omega & 1/10W & J \\ 4.7k\Omega & 1/10W & J \\ 2.2k\Omega & 1/10W & J \\ 100k\Omega & 1/10W & J \\ 1.2\Omega & 2W & J \\ 2.7k\Omega & 1/2W & J \end{array}$

⚠	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		,
	R1955 R1956 R1958-59 R1961 R1962 R1963 R1964 R1966	QRE121J-473Y NRSA02J-223X NRSA02J-0R0X QRJ146J-3R3X QRL029J-472 NRSA02J-103X NRSA02J-223X NRSA02J-223X	C R MG R C R OM R MG R MG R MG R	47kΩ 1/2W J 22kΩ 1/10W J 0.0Ω 1/10W J 3.3Ω 1/4W J 4.7kΩ 2W J 10kΩ 1/10W J 22kΩ 1/10W J 22kΩ 1/10W J
	R1967	QRE121J-683Y	C R OM R	68kΩ 1/2W J
	R1971	QRL029J-150	Un K	15Ω 2W J
	CAPA	CITOR		_
	C1001 C1003 C1004 C1005 C1006 C1007 C1009 C1011	QETN1HM-475Z QETN1EM-476Z QETN1CM-227Z QETN1EM-476Z NCB21HK-103X QETN1HM-106Z NDC21HJ-151X NCB21HK-103X	E CAP. E CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	4.7µF 50V M 47µF 25V M 220µF 16V M 47µF 25V M 0.01µF 50V K 10µF 50V M 150PF 50V J 0.01µF 50V K
	C1201 C1205 C1206 C1207 C1208 C1225 C1231 C1233	QETN1EM-476Z QETN1HM-106Z NCB21HK-104X QETN1CM-108Z NCB21HK-102X QETN1EM-476Z QETN1HM-105Z NCB21HK-682X	E CAP. E CAP. CHIP CAP. E CAP. C CAP. C CAP. E CAP. E CAP. C CAP.	47µF 25V M 10µF 50V M 0.1µF 50V K 1000µF 16V M 1000pF 50V K 47µF 25V M 1µF 50V M 6800pF 50V K
	C1234 C1235 C1241 C1242 C1243 C1251 C1252 C1253	QETN1HM-106Z	C CAP. C CAP. E CAP.	0.068µF 25V K 0.022µF 50V K 47µF 25V M 10µF 50V M 47µF 25V M 1µF 50V M 4.7µF 50V M 2.2µF 50V M
	C1254 C1255 C1256 C1271 C1281 C1283-87 C1288-89 C1301	QETN1HM-105Z QETN1HM-106Z QETN1HM-105Z QETN1EM-476Z QETN1EM-076Z QETN1HM-106Z QETN1HM-106Z QENC1EM-106Z NDC21HJ-9ROX	E CAP. C CAP.	1µF 50V M 10µF 50V M 1µF 50V M 47µF 25V M 1000µF 16V M 10µF 50V M 9.0pF 50V J
	C1302 C1303 C1304 C1305 C1306 C1307 C1308 C1309	NCB21HK-223X QENC1HM-105Z NCB21HK-223X NDC21HJ-180X NDC21HJ-101X QETN1AM-108Z NCB21HK-104X NCB21HK-102X	C CAP. BP E CAP. C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.022µF 50V K 1µF 50V M 0.022µF 50V K 18pF 50V J 1000pF 50V J 1000µF 10V M 0.1µF 50V K 1000pF 50V K
	C1402 C1403 C1421 C1422 C1424 C1425 C1427 C1428	QFV71HJ-334Z QFV71HJ-394Z NCB21HK-102X QFLC1HJ-103Z QETN1VM-107Z QETN1VM-477Z QETN1HM-225Z QETN1EM-228	MF CAP. MF CAP. C CAP. M CAP. E CAP. E CAP. E CAP. E CAP. E CAP. E CAP.	0.33µF 50V J 0.39µF 50V J 1000pF 50V K 0.01µF 50V J 100µF 35V M 470µF 35V M 2.2µF 50V M 2200µF 25V M
	C1431 C1432 C1433 C1434 C1435 C1436 C1501 C1502-03	QFLC1HJ-563Z QETN1HM-476Z QETN1EM-476Z NDC21HJ-100X NCB21HK-103X QFN32AK-224 QETN1CM-337Z QETN1EM-476Z	M CAP. E CAP. E CAP. C CAP. M CAP. E CAP. E CAP. E CAP.	0.056µF 50V J 47µF 50V M 47µF 25V M 10pF 50V J 0.01µF 50V K 0.22µF 100V K 330µF 16V M 47µF 25V M
	C1504 C1505	QETN1HM-106Z NCB21HK-333X	E CAP.	10μF 50V M 0.033μF 50V K

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Δ	Symbol No.	Part No.	Part Name	Description	Δ	Symbol No.	Part No.	Part Name	Description
	CAPA	CITOR					ACITOR		
Δ	C1506 C1507 C1508 C1510 C1521 C1522 C1523 C1531	NCB21HK-223X QETM1HM-106Z NDC21HG-201X QETM1HM-225Z QCB32HK-151Z QCB32HK-331Z QEHR2CM-105Z QFZ0196-472	C CAP. E CAP. CHIP C CAPACITOR E CAP. C CAP. C CAP. E CAP. HAP. E CAP. MPP CAP.	0.022µF 50V K 10µF 50V M 200pF 50V G 2.2µF 50V M 150pF 500V K 330pF 500V K 1µF 160V M 4700pF1.5kVH ±3%		C1925 C1926 C1927 C1928 C1931 C1932 C1933 C1934	QCZ0132-152Z QEHQ1VM-108 QETN1CM-227Z QETN1EM-108Z QETN1EM-476Z QEHR1VM-476Z QCZ0132-152Z NCB21HK-102X	C CAP. E CAP. E CAP. E CAP. E CAP. C CAP. C CAP. C CAP.	1500pF 500V K 1000µF 35V M 220µF 16V M 1000µF 25V M 47µF 25V M 47µF 35V M 1500pF 500V K
Δ	C1532 C1533 C1534 C1535 C1536 C1538 C1541 C1542	QFZ0198-133 QFP32GJ-223 QEHR2EM-225Z QFZ0197-624 QCB32HK-561Z QEZ0420-107 QETN2EM-106Z QETM1VM-108	MPP CAP. PP CAP. E CAP. MPP CAP. C CAP. E CAP. E CAP. E CAP.	0.013µF1.5kVH ±3% 0.022µF 400V J 2.2µF 250V M 0.62µF 250V J 560pF 500V K 100µF 160V M 10µF 250V M 100µF 35V M		C1935 C1937 C1938 C1951 C1952 C1954 C1971 C1972	QETN1HM-107Z QETN2CM-106Z NDC21HJ-471X QETN1CM-107Z QETN1HM-476Z QEHR1HM-226Z NCB21HK-104X NCB21HK-103X	E CAP. E CAP. C CAP. E CAP. E CAP. E CAP. C CAP. C CAP. CHIP CAP.	100µF 50V M 10µF 160V M 470pF 50V J 100µF 16V M 47µF 50V M 22µF 50V M 0.1µF 50V K 0.01µF 50V K
	C1544 C1545 C1546 C1548 C1551 C1578-79	QETN1VM-107Z QFN32AJ-472Z QFV71HJ-684Z QCB32HK-561Z QETN1HM-106Z QEM61HK-475Z	E CAP. M CAP. MF CAP. C CAP. E CAP. E CAP.	100µF 35V M 4700pF 100V J 0.68µF 50V J 560pF 500V K 10µF 50V M 4.7µF 50V K		C1973 C1990 C1991	QETN1CM-108Z QCZ9074-103 QCZ9074-103	E CAP. C CAP. C CAP.	1000µF 16V M 0.01µFAC125V M 0.01µFAC125V M
	C1602 C1604	QETN1HM-474Z QETN1HM-474Z	E CAP. E CAP.	0.47μF 50V M 0.47μF 50V M			ISFORMI		
	C1605 C1606 C1607	QETN1CM-107Z QETN1EM-108Z QETN1HM-474Z	E CAP. E CAP. E CAP.	100μF 16V M 1000μF 25V M 0.47μF 50V M	<u>^</u>	T1521 T1522 T1901	CE42034-002 QQH0051-001 CETS124-001J8	H.DRIVE TRANSF. H.V.TRANSF. SWITCH.TRANSF.	
	C1608-09 C1613	QETN1EM-108Z QETN1EM-476Z	E CAP. E CAP.	1000μF 25V M 47μF 25V M	-	COIL	_		
	C1615-17 C1701 C1703	QETN1HM-474Z NCB21HK-103X QETN1CM-107Z	E CAP. C CAP. E CAP.	0.47μF 50V M 0.01μF 50V K 100μF 16V M	<u> </u>		QQL29BJ-101Z QQL29BJ-220Z CE41345-00A QQLZ016-821 QQLZ018-220	PEAKING COIL PEAKING COIL LINEARITY COIL CHOKE COIL HEATER CHOKE	100µН 22µН
	C1704 C1705 C1706 C1708	NCB21HK-103X NDC21HJ-181X QETN1HM-474Z QETN1HM-105Z	C CAP. C CAP. E CAP.	0.01μF 50V K 180pF 50V J 0.47μF 50V M 1μF 50V M	Δ	L1532 L1591 L1701 L1702 L1771	QQL29BJ-4R7Z QQL244J-100Z	CHOKE COIL HEATER CHOKE PEAKING COIL COIL PEAKING COIL	4.7µН 10µН 4.7
	C1709 C1710-11 C1712 C1714	QETN1HM-105Z NDC21HJ-221X NDC21HJ-390X NDC21HJ-270X NCB21HK-103X	C CAP. C CAP. C CAP. C CAP.	220pF 50V J 39pF 50V J 27pF 50V J 0.01μF 50V K		L1771 L1921-22	QQL29BJ-4R7Z QQL42AK-820Z	COIL	4.7µН 82µН
	C1715 C1716	QETN1CM-107Z NCB21HK-103X	E CAP. C CAP.	100μF 16V M 0.01μF 50V K	-	DIO	) E		
	C1717-18 C1719 C1720-21 C1731 C1736 C1741	NCB21HK-103X NDC21HJ-330X NDC21HJ-471X NCB21HK-103X NRSA02J-0R0X NCB21HK-102X NCB21HK-102X	C CAP. C CAP. C CAP. MG R C CAP. C CAP.	33pF 50V J 470pF 50V J 0.01μF 50V K 0.0Ω 1/10W J 1000pF 50V K 1000pF 50V K		D1001 D1241-42 D1244-45 D1421 D1422 D1501 D1502-03	MTZJ33A-T2 1SS133-T2 1SS133-T2 1N4003-T2 MTZJ75-T2 1SS133-T2 MTZJ6.2B-T2 MTZJ5.1B-T2	ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
	C1743 C1744 C1746	NCB21HK-103X NRSA02J-OROX QETN1HM-106Z	C CAP. MG R E CAP.	0.01μF 50V K 0.0Ω 1/10W J 10μF 50V M		D1504			
	C1771 C1772 C1773 C1774 C1784	QETN1EM-476Z NCB21HK-103X QETN1CM-107Z QETN1CM-227Z QETN1EM-476Z	E CAP. C CAP. E CAP. E CAP. E CAP. E CAP.	47µF 25V M 0.01µF 50V K 100µF 16V M 220µF 16V M 47µF 25V M		D1531 D1532 D1533 D1541 D1542 D1544 D1546 D1548	RH3G-F1 RU3AM-LFC4 RGP10J-5025-T3 RH15-T3 RGP10J-5025-T3 15S81-T2 15R124-400A-T2 15S133-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE	
Δ	C1801-03 C1906 C1907 C1908 C1910 C1911 C1912 C1913	QETN1HM-105Z QC29078-102 QC29078-102 QC29078-102 QEZ0169-477 QETN1EM-108Z QFN31HJ-102Z QCZ0131-222	C CAP. C CAP. C CAP. E CAP. E CAP. M CAP. C CAP.	1μF 50V M 1000pFAC250V M 1000pFAC250V M 1000pFAC250V M 470μF 200V M 1000μF 25V M 1000pF 50V J 2200pF 2000V K	Δ	D1549	MTZJ5.6B-T2 MA4068N/Z1/-T2 15S133-T2 15S133-T2 15S133-T2 15S133-T2 MTZJ5.6B-T2 15S133-T2	ZENER DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZI.DIODE ZENER DIODE	
	C1914 C1915 C1916 C1918 C1919 C1920 C1921 C1923	QCZ0325-391 QFP32GJ-223 QCZ0131-332 NCB21HK-102X NCB21HK-332X QFLC1HJ-8237 QCZ0132-1527 QCZ0132-152Z	C CAP. PP CAP. C CAP. C CAP. C CAP. C CAP. M CAP. C CAP. C CAP.	390pF 2000V K 0.022µF 400V J 3300pF 2000V K 1000pF 50V K 3300pF 50V K 0.082µF 50V J 1500pF 500V K	Δ	D1771-72 D1821 D1831-32 D1901 D1902 D1903-04	155133-T2 155133-T2 MTZJ15A-T2 155133-T2 D35BA60-51 RGP10J-5025-T3 155133-T2 EGIA-T3 MTZJ15A-T2	SI.DIODE  SI.DIODE ZEMER DIODE SI.DIODE BRIDGE DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE	
	C1924	QEZ0420-107	E CAP.	100μF 160V M		D1905 D1909	MTZJ15A-T2	ZENER DIODE	

<u>^</u>	Symbol No.	Part No.	Part Name	Description
	DIO	) E		
	D1910 D1911 D1912 D1913-14 D1916 D1918 D1919-20 D1921	RGP10J-5025-T3 1SS133-T2 MTZJ15A-T2 RGP10J-5025-T3 RGP10J-5025-T3 MTZJ15A-T2 1SS133-T2 RU30A-F1	SI.DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE	
	D1922-23 D1925 D1926-28 D1931 D1933 D1942 D1951	RU3YX-LFC4 RGP10J-5025-T3 1SS133-T2 1SS133-T2 1SS133-T2 MTZJ6.8A-T2 MTZJ7.5S-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE	
	TRAN	ISISTO	 R	
	01001 01201 01203-04 01205 01231 01241-42 01261 01271-74	DTC124EKA-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X	DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
<u>^</u>	Q1521 Q1531 Q1541 Q1542 Q1551-52 Q1553 Q1602 Q1603	2SC4212/Z1/ 2SD2539-LB 2SA1037AK/QR/-X 2SC2785/JH/-T 2SA1309A/QR/-T 2SD1408/0Y/-LB 2SC2412K/QR/-X DTC124EKA-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR	H.OUT
	01604 01742 01743-44 01821 01822-23 01831 01832 01911	2SA1037AK/QR/-X DTC124EKA-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SA1037AK/QR/-X	SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
	Q1912 Q1921-22 Q1923 Q1924 Q1925 Q1926 Q1927-28 Q1942	2SD2088-T 2SC2412K/QR/-X 2SA1020/Y/-T 2SC2412K/QR/-X 2SA949/Y/Z1-T 2SC2240/GL/-T DTC124EKA-X 2SD1383K/AB/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR	
	Q1943 Q1944 Q1951	2SC2240/GL/-T DTC124EKA-X 2SA949/Y/Z1-T	SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR	
	IC			
<u>^</u>	IC1001 IC1201 IC1281 IC1421 IC1423 IC1601 IC1701 IC1702	AN7805F JCC1007A M52055FP-X LA7841 AN78L09-T LA4485 MN1876478JD AT24C02-320501	I.C. (MONO-ANA) I.C. (CONO-ANA) I.C. (CONO-ANA) I.C. (CONO-ANA) I.C. (MONO-ANA)	(SERVICE)
<u>^</u>	IC1703 IC1771 IC1901 IC1941 IC1971	MN1381/Q/-T AN77L05-T STR-F6626 SE135N AN7809F	I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(HYBRID) I.C.(HYBRID) I.C.(HYBRID) I.C.(MONO-ANA)	
	ОТНЕ	RS		
	CF1001	QAX0349-001	CERAMIC FILTER	

Δ	Symbol No.	Part No.	Part Name	Description
	ОТНЕ	ERS		
<b>≜</b>	CP1902 K1421 K1901-03 K1905-06 K1921-24 PC1901 PC1902 RY1901	ICP-N75-Y CE42050-001Z CE41433-001Z CE41433-001Z CE41433-001Z TLP621(B) TLP621(B) QSK0084-001	I.C.PROTECT CORE BEADS CORE BEADS CORE BEADS CORE I.C.(PH.COUPLER) I.C.(PH.COUPLER) RELAY	
<u>^</u>	RY1921 51421 TH1901 TU1001 W1295 W1297 W1300	QSK0084-001 QSL4A13-C02 CEKP007-002 QAU0133-001 NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	RELAY LEVER SWITCH P.THERMISTOR TUNER MG R MG R	0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J
	W1668 W1677 W1691-96 W1718-21 W1763-65 W1770 W1811 W1820	NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 0.0\Omega & 1/10W & J \\ \end{array}$
	W1827-28 W1834 W1856 W1878-79 W1885 W1892 W1896 W1900	NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 0.0\Omega & 1/10\text{W} & \text{J} \\ \end{array}$
	W1902 X1301 Y1602 Y1604 Y1709 Y1711 Y1720	NRSA02J-OROX QAX0310-001Z NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	MG R CRYSTAL MG R MG R MG R MG R MG R	0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J

# CRT SOCKET P.W. BOARD ASS'Y (SGR-3003A-M2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
	R3351-56 R3357-59 R3360 R3361 R3362 R3363-65 R3366-68 R3369-71	NRSA02J-221X NRSA02J-101X QRZ0111-152 QRZ0111-152 QRZ0111-152 QRG029J-103 NRSA02J-272X NRSA02J-101X	MG R MG R C R C R C R OM R MG R MG R	220Ω 1/10W J 100Ω 1/10W J 1500pF 1/2W K 1500pF 1/2W K 1500pF 1/2W K 10kΩ 2W J 2.7kΩ 1/10W J 100Ω 1/10W J
	R3381	QRE121J-394Y	C R	390kΩ 1/2W J
	CAPA	CITOR		
Δ	C3354-55 C3356 C3357 C3382	NCS21HJ-331X NCS21HJ-391X QETN1CM-107Z QCZ0121-102	C CAP. C CAP. E CAP. C CAP.	330pF 50V J 390pF 50V J 100µF 16V M 1000pF 3000V Z
	COIL			
	L3381	QQL39BK-101Z	COIL	100μΗ
	TRAN	SISTOF	₹	
	Q3351-53 Q3354-56	2SC4544-LB 2SC2412K/QR/-X	SI.TRANSISTOR SI.TRANSISTOR	
_	ОТНЕ	RS		
Δ	SK3351 W3002	CE42535-001J1 NRSA02J-0R0X	C.R.T.SOCKET MG R	0.0Ω 1/10W J

# FRONT CONTROL P.W. BOARD ASS'Y (SGR-4003A-M2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
	R4701 R4702 R4703 R4704 R4705 R4706 R4707 R4708	NRSA02J-103X NRSA02J-472X NRSA02J-153X NRSA02J-103X NRSA02J-472X NRSA02J-153X NRSA02J-332X NRSA02J-152X	MG R MG R MG R MG R MG R MG R MG R	10kΩ 1/10W J 4.7kΩ 1/10W J 15kΩ 1/10W J 10kΩ 1/10W J 4.7kΩ 1/10W J 4.7kΩ 1/10W J 15kΩ 1/10W J 3.3kΩ 1/10W J 1.5kΩ 1/10W J
	R4709	NRSA02J-561X	MG R	560Ω 1/10W J
_				
	CAPA	CITOR		
	C4841	QETN1EM-476Z	E CAP.	47μF 25V M
	DIOD	Ε		
	D4701	SLR-342VR3F	L.E.D.	
	TRAN	ISISTOF	₹	
	Q4701-02	DTA124EKA-X	DIGI.TRANSISTOR	
	IC			
	IC4841	GP1U281Q	IFR DETECT UNIT	
	ОТНЕ	RS		
	\$4702 \$4703 \$4704 \$4705 \$4706 \$4707 W4001-02	LC30190-001B-A QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z NRSA02J-OROX	LED HOLDER PUSH SWITCH MG R	MENU CH - CH + VOL - VOL + POWER 0.0Ω 1/10W J

# AV SELECTOR P.W. BOARD ASS'Y (SGR-8004A-M2)

▲ Symbol No.	Part No.	Part Name	Description
RESI	STOR		_
R8181 R8182 R8183 R8184 R8185 R8186 R8187 R8188	NRSA02J-102X NRSA02J-682X NRSA02J-153X NRSA02J-683X NRSA02J-332X NRSA02J-333X NRVA02D-153X NRVA02D-152X	MG R MF R MF R	$\begin{array}{cccc} 1k\Omega & 1/10W & J \\ 6.8k\Omega & 1/10W & J \\ 15k\Omega & 1/10W & J \\ 68k\Omega & 1/10W & J \\ 3.3k\Omega & 1/10W & J \\ 33k\Omega & 1/10W & J \\ 15k\Omega & 1/10W & D \\ 1.5k\Omega & 1/10W & D \\ \end{array}$
R8189 R8201-02 R8203 R8204 R8210 R8211 R8212 R8213	NRSAO2J-512X NRSAO2J-101X NRSAO2J-562X NRSAO2J-331X NRSAO2J-0ROX NRSAO2J-153X NRSAO2J-333X NRSAO2J-102X	MG R	5.1kΩ 1/10W J 100Ω 1/10W J 5.6kΩ 1/10W J 330Ω 1/10W J 0.0Ω 1/10W J 15kΩ 1/10W J 33kΩ 1/10W J 1kΩ 1/10W J
R8214 R8215 R8216-17 R8218 R8223 R8224-25 R8226 R8227	NRSA02J-181X NRSA02J-152X NRSA02J-182X NRSA02J-102X NRSA02J-0ROX NRSA02J-473X NRSA02J-101X NRSA02J-332X	MG R	$\begin{array}{cccc} 180\Omega & 1/10\text{W} & \text{J} \\ 1.5\text{k}\Omega & 1/10\text{W} & \text{J} \\ 1.8\text{k}\Omega & 1/10\text{W} & \text{J} \\ 1\text{k}\Omega & 1/10\text{W} & \text{J} \\ 0.0\Omega & 1/10\text{W} & \text{J} \\ 47\text{k}\Omega & 1/10\text{W} & \text{J} \\ 100\Omega & 1/10\text{W} & \text{J} \\ 3.3\text{k}\Omega & 1/10\text{W} & \text{J} \\ \end{array}$
R8229 R8230 R8231 R8232-33 R8234 R8235-36 R8237 R8241	NRSAO2J-473X NRSAO2J-223X NRSAO2J-101X NRSAO2J-102X NRSAO2J-152X NRSAO2J-101X NRSAO2J-102X NRSAO2J-821X	MG R MG R MG R MG R MG R MG R MG R MG R	47kΩ 1/10W J 22kΩ 1/10W J 100Ω 1/10W J 1kΩ 1/10W J 1.5kΩ 1/10W J 1.5kΩ 1/10W J 100Ω 1/10W J 1kΩ 1/10W J 820Ω 1/10W J
R8251 R8255 R8256 R8257 R8258 R8259 R8271 R8272	NRSA02J-471X NRSA02J-471X NRSA02J-152X NRSA02J-472X NRSA02J-101X NRSA02J-222X NRSA02J-102X NRSA02J-152X	MG R	$\begin{array}{c} 470\Omega\ 1/10W  J \\ 470\Omega\ 1/10W  J \\ 1.5k\Omega\ 1/10W  J \\ 4.7k\Omega\ 1/10W  J \\ 100\Omega\ 1/10W  J \\ 2.2k\Omega\ 1/10W  J \\ 1k\Omega\ 1/10W  J \\ 1.5k\Omega\ 1/10W  J \\ \end{array}$
R8273 R8275 R8276 R8301 R8303 R8304 R8305 R8306	NRSA02J-222X NRSA02J-152X NRSA02J-0R0X NRSA02J-221X NRSA02J-102X NRSA02J-101X NRSA02J-222X NRSA02J-471X	MG R	$\begin{array}{ccccc} 2.2 k\Omega & 1/10 W & J \\ 1.5 k\Omega & 1/10 W & J \\ 0.0 \Omega & 1/10 W & J \\ 220 \Omega & 1/10 W & J \\ 18 \Omega & 1/10 W & J \\ 100 \Omega & 1/10 W & J \\ 2.2 k\Omega & 1/10 W & J \\ 470 \Omega & 1/10 W & J \\ \end{array}$
R8308 R8310-11 R8371 R8372 R8375 R8376 R8377 R8378	NRSAO2J-331X NRSAO2J-153X NRSAO2J-182X NRSAO2J-152X NRSAO2J-183X NRSAO2J-103X NRSAO2J-152X NRSAO2J-0ROX	MG R	330Ω 1/10W J 15kΩ 1/10W J 1.8kΩ 1/10W J 1.8kΩ 1/10W J 1.8kΩ 1/10W J 10kΩ 1/10W J 1.5kΩ 1/10W J 0.0Ω 1/10W J
R8631-34 R8651-54 R8655 R8657 R8659 R8671-74 R8675-76 R8677-78	NRSA02J-101X NRSA02J-223X NRSA02J-0R0X NRSA02J-0R0X NRSA02J-103X NRSA02J-103X NRSA02J-333X NRSA02J-472X	MG R MG R MG R MG R MG R MG R MG R	100Ω 1/10W J 22kΩ 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J 10kΩ 1/10W J 10kΩ 1/10W J 33kΩ 1/10W J 4.7kΩ 1/10W J
R8681 R8682 R8684-87 R8691-92 R8693-94	NRSA02J-682X NRSA02J-223X NRSA02J-223X NRSA02J-221X NRSA02J-823X	MG R MG R MG R MG R MG R	6.8kΩ 1/10W J 22kΩ 1/10W J 22kΩ 1/10W J 220Ω 1/10W J 82kΩ 1/10W J

Δ	Symbol No.	Part No.	Part Name	Description
		STOR		
	R8695-96 R8801-03 R8804-05 R8808 R8809-10 R8813	NRSA02J-221X NRSA02J-820X NRSA02J-823X NRSA02J-820X NRSA02J-823X NRSA02J-102X	MG R MG R MG R MG R MG R	220Ω 1/10W J 82Ω 1/10W J 82Ω 1/10W J 82Ω 1/10W J 82Ω 1/10W J 1kΩ 1/10W J
	R8814-16 R8817-18	NRSA02J-221X NRSA02J-102X	MG R MG R	220Ω 1/10W J 1kΩ 1/10W J
	R8819 R8820-21 R8825 R8826-27 R8831-33 R8837 R8843-44 R8851	NRSA02J-221X NRSA02J-102X NRSA02J-221X NRSA02J-102X NRSA02J-563X NRSA02J-101X NRSA02J-101X NRSA02J-562X	MG R MG R MG R MG R MG R MG R MG R	220Ω 1/10W J 1kΩ 1/10W J 220Ω 1/10W J 1kΩ 1/10W J 56kΩ 1/10W J 100Ω 1/10W J 100Ω 1/10W J 5.6kΩ 1/10W J
	R8852 R8861-63 R8864-65 R8866-67 R8868-69 R8870-71 R8872-73 R8874-75	NRSA02J-223X NRSA02J-820X NRSA02J-223X NRSA02J-153X NRSA02J-152X NRSA02J-271X NRSA02J-102X NRSA02J-152X	MG R MG R MG R MG R MG R MG R MG R	22kΩ 1/10W J 82Ω 1/10W J 22kΩ 1/10W J 15kΩ 1/10W J 1.5kΩ 1/10W J 270Ω 1/10W J 1kΩ 1/10W J 1.5kΩ 1/10W J
	CAPA	CITOR		
	C8181 C8182 C8183 C8184 C8185 C8186 C8187-88 C8189	NCB21HK-104X QENC1HM-475Z QENC1HM-105Z QETN1HM-225Z NCB21HK-473X QETN1HM-474Z NCB21HK-104X QBTC1CK-335Z	CHIP CAP. BP E CAP. BP E CAP. E CAP. C CAP. E CAP. C CAP. TAN.CAP.	0.1µF 50V K 4.7µF 50V M 1µF 50V M 2.2µF 50V M 0.047µF 50V K 0.47µF 50V M 0.1µF 50V K 3.3µF 16V K
	C8190 C8191 C8192-93 C8194 C8195 C8201 C8203 C8204	QETN1HM-105Z QBTC1CK-106Z QETN1HM-105Z QETN1HM-475Z QETN1HM-075Z QETN1CM-107Z QETN1CM-107Z QETN1CM-107Z NCB21HK-103X	E CAP. TAN.CAP. E CAP. E CAP. E CAP. E CAP. E CAP. C CAP.	1µF 50V M 10µF 16V K 1µF 50V M 4.7µF 50V M 1µF 50V M 100µF 16V M 47µF 25V M 0.01µF 50V K
	C8208 C8209 C8211 C8212 C8213 C8214 C8215 C8216	NCB21HK-103X QETN1EM-476Z QENC1EM-106Z NDC21HJ-101X NDC21HJ-470X NDC21HJ-181X QETN1HM-474Z NDC21HJ-221X	C CAP. E CAP. BP E CAP. C CAP. C CAP. C CAP. E CAP. C CAP.	0.01µF 50V K 47µF 25V M 10µF 25V M 100pF 50V J 47pF 50V J 180pF 50V J 0.47µF 50V M 220pF 50V J
	C8222 C8224 C8225-26 C8231-32 C8241-45 C8246 C8247-49 C8251	NCB21HK-103X NDC21HJ-100X NCB21HK-103X QETN1EM-476Z NCB21HK-103X NDC21HJ-181X NCB21HK-103X QETN1EM-476Z	C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. E CAP.	0.01µF 50V K 10pF 50V J 0.01µF 50V K 47µF 25V M 0.01µF 50V K 180pF 50V J 0.01µF 50V K 47µF 25V M
	C8252 C8255 C8304 C8306 C8307 C8308 C8371 C8375	NCB21HK-103X NDC21HJ-390X NDC21HJ-560X NDC21HJ-820X NDC21HJ-271X NCB21HK-103X NCB21HK-103X NCB21HK-103X	C CAP.	0.01µF 50V K 39pF 50V J 56pF 50V J 82pF 50V J 270pF 50V J 0.01µF 50V K 0.01µF 50V K
	C8631 C8632	QETN1CM-107Z NCB21HK-103X	E CAP. C CAP.	100μF 16V M 0.01μF 50V K

⚠	Symbol No.	Part No.	Part Name	Des	cription
	CAPA	CITOR			
	C8633 C8634 C8635 C8636 C8637 C8638 C8639 C8640	QETN1EM-476Z NCB21HK-273X QETN1HM-225Z NCB21HK-222X NCB21HK-104X QETN1HM-225Z NCB21HK-104X NCB21HK-104X	E CAP. C CAP. E CAP. C CAP. CHIP CAP. E CAP. C CAP. C CAP.	47μF 0.027μF 2.2μF 2200pF 0.1μF 2.2μF 2200pF 0.1μF	25V M 50V K 50V M 50V K 50V K 50V M 50V K 50V K
	C8643 C8651-52 C8653-54 C8655-56 C8657-58 C8659 C8660 C8671-72	QETN1HM-105Z QENC1HM-105Z NCB21HK-332X NCB21HK-333X QETN1HM-106Z QETN1EM-476Z NCB21HK-104X QENC1HM-105Z	E CAP. BP E CAP. C CAP. C CAP. E CAP. E CAP. C HIP CAP. BP E CAP.	1µF 1µF 3300pF 0.033µF 10µF 47µF 0.1µF	50V M 50V K 50V K 50V K 50V M 25V M 50V K 50V M
	C8673 C8691-92 C8814 C8815-16 C8817-18 C8819 C8820-21 C8824-25	QETN1EM-476Z QETN1HM-474Z QETN1HM-105Z QETN1HM-106Z QETN1HM-105Z QETN1HM-106Z QETN1HM-105Z NCB21HK-102X	E CAP. C CAP.	47µF 0.47µF 1µF 10µF 1µF 10µF 1µF	25V M 50V M 50V M 50V M 50V M 50V M 50V M 50V K
	C8834-37 C8840-41 C8845 C8846-47 C8848-49 C8850-51 C8852 C8854	NCB21HK-102X QETN1HM-105Z QETN1HM-106Z NCB21HK-103X QENC1HM-105Z QETN1EM-476Z QENC1HM-105Z QETN1HM-106Z	C CAP. E CAP. E CAP. C CAP. BP E CAP. E CAP. E CAP. E CAP.	1000pF 1µF 10µF 0.01µF 1µF 47µF 1µF	50V K 50V M 50V M 50V K 50V M 25V M 50V M
	C8855 C8861-64 C8865-66 C8867-68	QENC1HM-105Z QETN1HM-106Z NDC21HJ-270X QETN1EM-476Z	BP E CAP. E CAP. C CAP. E CAP.	1μF 10μF 27pF 47μF	50V M 50V M 50V J 25V M
_	COIL				
	L8201 L8202 L8211 L8241 L8251 L8301 L8302	QQL29BJ-4R7Z QQL29BJ-150Z QQL29BJ-4R7Z QQL29BJ-4R7Z QQL29BJ-4R7Z QQL29BJ-150Z QQL29BJ-100Z	PEAKING COIL		4.7μH 15μH 4.7μH 4.7μH 4.7μH 15μH 10μH
	DIOD	E			
	D8691-92 D8703 D8814-21 D8824-27 D8841-42 D8863-66	MTZJ9.1C-T2 MTZJ5.6B-T2 MTZJ9.1C-T2 MTZJ9.1C-T2 MTZJ9.1C-T2 MTZJ9.1C-T2	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
	TRAN	SISTOR	₹		
	Q8201 Q8211-12 Q8217-18 Q8219 Q8252 Q8253 Q8271 Q8301-02	2SC2412K/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		
	08304-05 08371 08681-82 08684-87 08851-52	2SC2412K/QR/-X 2SC2412K/QR/-X DTC124EKA-X DTC325TK-X DTC124EKA-X	SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR		

Symbol No.	Part No.	Part Name	Description
TRAI	NSISTO	R	
Q8861-62 Q8863-64	2SC2412K/QR/-X 2SA1037AK/QR/-X	SI.TRANSISTOR SI.TRANSISTOR	
IC			
IC8201 IC8202 IC8631 IC8651 IC8671 IC8681 IC8801 IC8803	TC90A45P AN78L05-T UPC1851BCU NJM2150AD BA15218N TC4066BP/N/ CXA1545AS TC4066BP/N/	I.C.(DIGI-MOS) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(DIGI-MOS) I.C.(MONO-ANA)	
отні	ERS		
CF8201 DL8861-62 FL8861-63 J8801 J8801 J8802 J8802 J8803	QAX0558-001 CE41785-002 CE42543-001 QNZ0454-001 QNZ0117-001 QNN0349-001 QNN0349-001 QNN0349-002	CERAMIC FILTER LOWPASS FILTER EMI FILTER PIN JACK PIN JACK PIN JACK PIN JACK PIN JACK PIN JACK	
J8804 J8805 K8201 K8242 W8002 W8005-06 W8010 W8013	ONNO348-001 ONSO001-001 CE41433-0017 CE41433-0017 NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	PIN JACK JACK BEADS CORE BEADS CORE MG R MG R MG R MG R	0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J
W8039 W8041 W8045 W8049 W8052-53 W8056 W8162 W8172	NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	MG R MG R MG R MG R MG R MG R MG R	0.0Ω 1/10W J 0.0Ω 1/10W J
W8183	NRSA02J-OROX	MG R	0.0Ω 1/10W J

### FRONT AV IN P.W. BOARD ASS'Y(SGR-8301A-M2)

Part No.	Part Name	Description
ISTOR		
NRSA02J-820X NRSA02J-823X	MG R MG R	82Ω 1/10W J 82kΩ 1/10W J
ERS		
QNN0281-003 QNN0281-002 QNN0282-001	PIN JACK PIN JACK PIN JACK	
	NRSA02J-823X  = R S  ONNO281-003 ONNO281-002	NRSA02J-820X MG R NRSA02J-823X MG R   = R S  QNN0281-003 PIN JACK QNN0281-002 PIN JACK

### LINE FILTER P.W. BOARD ASS'Y(SGR-9001A-M2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
⚠	R9998 R9999	QRZ9041-275 QRE121J-121Y	C R C R	2.7MΩ 1/2W K 120Ω 1/2W J
	CAPA	CITOR		
<u>^</u>	C9901 C9902 C9903 C9904	QFZ9067-104 QFZ9067-473 QFZ9067-104 QCZ9052-102	MPP CAP. MPP CAP. MPP CAP. C CAP.	0.1µFAC275V M 0.047µFAC275V M 0.1µFAC275V M 1000pFAC125V M
	ОТНЕ	RS		
<u>∧</u>	CN90PW F9901 FC9901 LF9901 LF9902 VA9901	QMPD200-200-JC QMF0007-5R0J1 CEM6002-001Z CELF008-001J5 CE42335-001J1 ERZV10V621CS	POWER CORD FUSE FUSE CLIP LINE FILTER LINE FILTER VARISTOR	5.0A

#### IF P.W. BOARD ASS'Y(SGR0F002A-M2)

<u></u> ∆ Sy	/mbol No.	Part No.	Part Name	Description
F	RESI	STOR		_
RO RO RO RO RO	0101 0102 0103 0104 0105 0111-12 0113 0116	NRSA02J-562X NRSA02J-182X QRE12IJ-101Y NRSA02J-180X NRSA02J-270X NRSA02J-154X NRSA02J-101X NRSA02J-680X	MG R MG R C R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
RO RO RO RO RO	0117 0118 0131 0132 0133 0134 0135 0161	NRSA02J-273X NRSA02J-223X NRSA02J-102X NRSA02J-331X NRSA02J-821X NRSA02J-391X NRSA02J-102X NRSA02J-332X	MG R MG R MG R MG R MG R MG R MG R	27kΩ 1/10W J 22kΩ 1/10W J 1kΩ 1/10W J 330Ω 1/10W J 320Ω 1/10W J 390Ω 1/10W J 1kΩ 1/10W J 3,3kΩ 1/10W J
RO RO RO RO RO	0162 0163 0164 0165 0166 0167 0168 0169	NRSA02J-0R0X NRSA02J-223X NRSA02J-102X NRSA02J-223X NRSA02J-103X NRSA02J-102X NRSA02J-101X NRSA02J-561X	MG R MG R MG R MG R MG R MG R MG R	0.0Ω 1/10W J 22kΩ 1/10W J 1kΩ 1/10W J 22kΩ 1/10W J 10kΩ 1/10W J 10kΩ 1/10W J 100Ω 1/10W J 560Ω 1/10W J
RO	)171	NRSA02J-103X	MG R	10kΩ 1/10W J
_	CAPA	CITOR		
C0 C0 C0	0101-02 0104-05 0106 0107 0113-14	NCB21HK-103X NCB21HK-103X QETN1HM-476Z NCB21HK-103X NCB21HK-103X QFV71HJ-224Z	C CAP. C CAP. E CAP. C CAP. C CAP. MF CAP.	$\begin{array}{ccccc} 0.01 \mu F & 50V & K \\ 0.01 \mu F & 50V & K \\ 47 \mu F & 50V & M \\ 0.01 \mu F & 50V & K \\ 0.01 \mu F & 50V & K \\ 0.22 \mu F & 50V & J \end{array}$

∆ Symbol No.	Part No.	Part Name	Description
CAPA	ACITOR		
C0117 C0118 C0119 C0120 C0124 C0131 C0161 C0163-64	QETN1EM-476Z NCB21HK-103X NDC21HJ-681X QETN1HM-474Z NCB21HK-103X NCB21HK-103X QETN1HM-106Z NDC21HJ-470X	E CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	$\begin{array}{cccc} 47\mu F & 25V & M \\ 0.01\mu F & 50V & K \\ 680\rho F & 50V & J \\ 0.47\mu F & 50V & M \\ 0.01\mu F & 50V & K \\ 0.01\mu F & 50V & K \\ 10\mu F & 50V & M \\ 47\rho F & 50V & J \\ \end{array}$
C0165-66 C0167	NCB21HK-103X QENC1HM-105Z	C CAP. BP E CAP.	0.01μF 50V K 1μF 50V M
TRAN	NSFORM	ER	
T0111	QQR0907-001	I.F.TRANSFOMER	
COII	_		
L0101 L0113 L0131 L0161	QQLZ014-R22 QQL29BJ-4R7Z QQL29BJ-150Z QQL29BJ-220Z	PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL	0.22µН 4.7µН 15µН 22µН
TRAN	NSISTO	R	
Q0101 Q0131 Q0161	2SC5083/L-P/-T 2SA1037AK/QR/-X 2SC2412K/QR/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
IC			
IC0101	M52342SP	I.C.(MONO-ANA)	
ОТНЕ	ERS		
CF0131 CF0161 SF0101 Y0002	QAX0339-001 SFSH4.5MCB QAX0324-002 NRSA02J-0R0X	CERAMIC FILTER CERAMIC FILTER SAW FILTER MG R	0.0Ω 1/10W J

## II. AV-32D201(US&CA)

### PRINTED WIRING BOARD PARTS LIST

### MAIN P.W. BOARD ASS'Y (SGR-1016A-M2)

⚠ Symbol No.	Part No.	Part Name	Description	∆ Symbol No.	Part No.	Part Name	Description
RESI	STOR			RESI	STOR		
R1003 R1004 R1005 R1006 R1201 R1202 R1203 R1204	NRSA02J-221X NRSA02J-0R0X NRSA02J-103X NRSA02J-820X NRSA02J-472X NRSA02J-152X NRSA02J-223X NRSA02J-683X	MG R MG R MG R MG R MG R MG R MG R	220Ω 1/10W J 0.0Ω 1/10W J 10kΩ 1/10W J 82Ω 1/10W J 4.7kΩ 1/10W J 1.5kΩ 1/10W J 22kΩ 1/10W J 68kΩ 1/10W J	R1503 R1505 R1506 R1507 R1508-09 R1510 R1511 R1512	NRSA02J-103X NRSA02J-473X NRSA02J-101X NRSA02J-681X NRSA02J-102X NRSA02J-0R0X NRSA02J-182X NRSA02J-563X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 10 k \Omega & 1/10 W & J \\ 47 k \Omega & 1/10 W & J \\ 100 \Omega & 1/10 W & J \\ 680 \Omega & 1/10 W & J \\ 1k \Omega & 1/10 W & J \\ 0.0 \Omega & 1/10 W & J \\ 1.8 k \Omega & 1/10 W & J \\ 56 k \Omega & 1/10 W & J \\ \end{array}$
R1205 R1209 R1210 R1212 R1213-14 R1215 R1216 R1218-19	NRSA02J-222X NRSA02J-0R0X NRSA02J-272X NRSA02J-471X NRSA02J-821X NRSA02J-681X NRSA02J-272X NRSA02J-101X	MG R MG R MG R MG R MG R MG R MG R	2.2kΩ 1/10W J 0.0Ω 1/10W J 2.7kΩ 1/10W J 470Ω 1/10W J 820Ω 1/10W J 680Ω 1/10W J 2.7kΩ 1/10W J 100Ω 1/10W J	R1513 R1516 R1521 R1522 R1523 R1524-25 R1531 R1532	NRSA02J-103X NRSA02J-821X NRSA02J-331X NRSA02J-271X QRE121J-103Y QR6029J-152 QRE121J-220Y QRE121J-681Y	MG R MG R MG R MG R C R OM R C R	10kΩ 1/10W J 820Ω 1/10W J 330Ω 1/10W J 270Ω 1/10W J 10kΩ 1/2W J 1.5kΩ 2W J 22Ω 1/2W J 680Ω 1/2W J
R1231 R1232 R1233 R1234 R1235 R1236 R1237 R1238	NRSA02J-473X NRSA02J-221X NRSA02J-102X NRSA02J-821X NRSA02J-562X NRSA02J-105X NRSA02J-0R0X NRSA02J-0R0X NRSA02J-682X	MG R MG R MG R MG R MG R MG R MG R	47kΩ 1/10W J 220Ω 1/10W J 1kΩ 1/10W J 820Ω 1/10W J 5.6kΩ 1/10W J 1MΩ 1/10W J 0.0Ω 1/10W J 6.8kΩ 1/10W J	R1533	QRL039J-103 QRK129J-150 QRX01GJ-1R2 QR29017-4R7 QRE121J-332Y QRE121J-154Y QRE121J-184Y QRA14CF-7321Y	OM R C R MF R F R C R C R C R MF R	10kΩ 3W J 15Ω 1/2W J 1.2Ω 1W J 4.7 Ω 1/4W J 3.3kΩ 1/2W J 150kΩ 1/2W J 180kΩ 1/2W J 7.32kΩ 1/4W F
R1241 R1242 R1243 R1245 R1246 R1247-48 R1251 R1252	NRSA02J-472X NRSA02J-392X NRSA02J-182X NRSA02J-471X NRSA02J-392X NRSA02J-471X NRVA02D-102X NRVA02D-681X	MG R MG R MG R MG R MG R MF R MF R	4.7kΩ 1/10W J 3.9kΩ 1/10W J 1.8kΩ 1/10W J 470Ω 1/10W J 3.9kΩ 1/10W J 470Ω 1/10W J 1kΩ 1/10W D 680Ω 1/10W D	△ R1557 R1558 R1559 R1560 R1561 R1582 R1583 R1584	QRA14CF-3301Y NRSA02J-333X NRSA02J-123X NRSA02J-273X NRSA02J-103X NRSA02J-331X NRSA02J-331X NRSA02J-323X NRSA02J-821X	MF R MG	3.3kΩ 1/4W F 33kΩ 1/10W J 12kΩ 1/10W J 27kΩ 1/10W J 10kΩ 1/10W J 330Ω 1/10W J 22kΩ 1/10W J 820Ω 1/10W J
R1253 R1254 R1255 R1261 R1262 R1263 R1271 R1272	NRSA02J-183X NRSA02J-105X NRSA02J-124X NRSA02J-103X NRSA02J-222X NRSA02J-101X NRSA02J-561X NRSA02J-102X	MG R MG R MG R MG R MG R MG R MG R	18kΩ 1/10W J 1MΩ 1/10W J 120kΩ 1/10W J 10kΩ 1/10W J 2.2kΩ 1/10W J 100Ω 1/10W J 560Ω 1/10W J 1kΩ 1/10W J	R1585 R1586 R1587 R1588 R1601 R1602 R1603 R1604	QRE121J-392Y QRE121J-682Y QRE121J-822Y QRL039J-27O NRSA02J-682X NRSA02J-0R0X NRSA02J-0R0X NRSA02J-0R0X	C R C R C R OM R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R1273 R1274-75 R1276 R1277 R1278 R1279 R1280-83 R1284	NRSA02J-152X NRSA02J-223X NRSA02J-222X NRSA02J-471X NRSA02J-122X NRSA02J-152X NRSA02J-222X QRE121J-470Y	MG R MG R MG R MG R MG R MG R C R	1.5kΩ 1/10W J 22kΩ 1/10W J 2.2kΩ 1/10W J 470Ω 1/10W J 1.2kΩ 1/10W J 1.5kΩ 1/10W J 2.2kΩ 1/10W J 47Ω 1/2W J	R1605 R1606-07 R1611 R1612 R1615-16 R1617 R1620 R1701	QRT029J-R15 NRSA02J-223X NRSA02J-333X NRSA02J-223X NRSA02J-821X NRSA02J-102X NRSA02J-104X NRSA02J-102X	MF R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 0.15\Omega & 2W & J \\ 22k\Omega & 1/10W & J \\ 33k\Omega & 1/10W & J \\ 22k\Omega & 1/10W & J \\ 820\Omega & 1/10W & J \\ 1k\Omega & 1/10W & J \\ 100k\Omega & 1/10W & J \\ 1k\Omega & 1/10W & J \\ \end{array}$
R1301-02 R1401 R1421 R1423 R1424 R1426 R1427 R1429	NRSA02J-472X NRVA02D-472X NRSA02J-562X NRSA02J-393X NRSA02J-123X NRSA02J-183X QRT029J-1R5 NRSA02J-472X	MG R MF R MG R MG R MG R MF R MF R	4.7kΩ 1/10W J 4.7kΩ 1/10W D 5.6kΩ 1/10W J 39kΩ 1/10W J 12kΩ 1/10W J 18kΩ 1/10W J 1.5Ω 2W J 4.7kΩ 1/10W J	R1703 R1704 R1705 R1706 R1708 R1710 R1714-16 R1717	NRSA02J-823X NRSA02J-104X NRSA02J-103X NRSA02J-223X NRSA02J-223X NRSA02J-0R0X NRSA02J-0R0X NRSA02J-331X	MG R MG R MG R MG R MG R MG R MG R	82kΩ 1/10W J 100kΩ 1/10W J 10kΩ 1/10W J 22kΩ 1/10W J 22kΩ 1/10W J 0.0Ω 1/10W J 2.2kΩ 1/10W J 330Ω 1/10W J
R1431 R1432 R1433 R1434 R1435 R1441 R1442 R1501	NRSA02J-152X NRSA02J-101X NRSA02J-471X QRL029J-181 QRE121J-102Y NRSA02J-332X NRSA02J-0R0X QRK126J-151X	MG R MG R OM R C R MG R MG R C R	1.5kΩ 1/10W J 100Ω 1/10W J 470Ω 1/10W J 180Ω 2W J 1kΩ 1/2W J 3.3kΩ 1/10W J 0.0Ω 1/10W J 150Ω 1/2W J	R1718 R1719 R1720 R1721 R1724 R1725 R1726-27 R1728-29	NRSA02J-222X NRSA02J-331X NRSA02J-222X NRSA02J-331X NRSA02J-102X NRSA02J-104X NRSA02J-682X NRSA02J-332X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R1502	NRSA02J-101X	MG R	100Ω 1/10W J	R1730-31	NRSA02J-101X	MG R	100Ω 1/10W J

<b>∆</b> S	ymbol No.	Part No.	Part Name	Description
ı	RESI	STOR		
R R R R R	1732 1733-34 1736 1739 1741 1742 1743 1744	NRSA02J-224X NRSA02J-682X NRSA02J-102X NRSA02J-473X NRSA02J-223X NRSA02J-822X NRSA02J-822X NRSA02J-103X	MG R MG R MG R MG R MG R MG R MG R	220kΩ 1/10W J 6.8kΩ 1/10W J 1kΩ 1/10W J 47kΩ 1/10W J 22kΩ 1/10W J 8.2kΩ 1/10W J 2.2kΩ 1/10W J 10kΩ 1/10W J
R R R R R	1745 1746 1747 1749 1750 1753-54 1756 1757-58	NRSA02J-223X NRSA02J-103X NRSA02J-222X NRSA02J-682X NRSA02J-102X NRSA02J-103X NRSA02J-103X NRSA02J-682X	MG R MG R MG R MG R MG R MG R MG R	22kΩ 1/10W J 10kΩ 1/10W J 2.2kΩ 1/10W J 6.8kΩ 1/10W J 1kΩ 1/10W J 10kΩ 1/10W J 10kΩ 1/10W J 6.8kΩ 1/10W J 6.8kΩ 1/10W J
R R R R R	1759 1765-66 1767 1772 1773 1774 1775 1776	NRSA02J-102X NRSA02J-0R0X NRSA02J-222X NRSA02J-102X NRSA02J-121X NRSA02J-101X NRSA02J-322X NRSA02J-101X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R R R R R	1777 1791-99 1801-04 1805-07 1821 1822 1823 1824	NRSA02J-332X NRSA02J-471X NRSA02J-332X NRSA02J-101X NRSA02J-223X NRSA02J-822X NRSA02J-153X NRSA02J-333X	MG R MG R MG R MG R MG R MG R MG R	3.3kΩ 1/10W J 470Ω 1/10W J 3.3kΩ 1/10W J 100Ω 1/10W J 22kΩ 1/10W J 8.2kΩ 1/10W J 15kΩ 1/10W J 33kΩ 1/10W J
R R R R	1825 1826 1831 1832 1833-34 1835-36 1901	NRSA02J-472X NRSA02J-473X NRSA02J-332X NRSA02J-682X NRSA02J-102X NRSA02J-473X QRF074K-R47 QRE121J-822Y	MG R MG R MG R MG R MG R UNF R C R	4.7kΩ 1/10W J 47kΩ 1/10W J 3.3kΩ 1/10W J 6.8kΩ 1/10W J 1kΩ 1/10W J 47kΩ 1/10W J 0.47 Ω 7W K 8.2kΩ 1/2W J
R R R R R	1903 1904-05 1906 1907-08 1909 1912-13 1914 1916	NRSA02J-681X QRT029J-R22 QRE121J-822Y QRL039J-393 QRE121J-3332Y QRE121J-333Y QRE121J-2R2Y NRSA02J-152X	MG R MF R C R OM R C R C R C R MG R	680Ω 1/10W J 0.22Ω 2W J 8.2kΩ 1/2W J 39kΩ 3W J 3.3kΩ 1/2W J 33kΩ 1/2W J 2.2Ω 1/2W J 1.5kΩ 1/10W J
R R R R R	1917 1918 1919 1920 1924 1925 1926 1928	NRSA02J-103X NRSA02J-182X NRSA02J-152X NRSA02J-103X QRG01GJ-221 NRSA02J-103X QRT029J-R82 NRSA02J-682X	MG R MG R MG R MG R MG R MG R MG R	10kΩ 1/10W J 1.8kΩ 1/10W J 1.5kΩ 1/10W J 10kΩ 1/10W J 220Ω 1W J 10kΩ 1/10W J 0.82Ω 2W J 6.8kΩ 1/10W J
R R R R R	1931 1933 1934 1936 1937 1938 1940 1941	NRSA02J-682X NRSA02J-102X NRSA02J-104X QRE12IJ-222Y NRSA02J-822X NRSA02J-272X NRSA02J-104X NRSA02J-104X	MG R MG R MG R C R MG R MG R MG R	6.8kΩ 1/10W J 1kΩ 1/10W J 100kΩ 1/10W J 2.2kΩ 1/2W J 8.2kΩ 1/10W J 2.7kΩ 1/10W J 100kΩ 1/10W J 1kΩ 1/10W J
R R R R	1942 1943 1944 1945-46 1947 1948 1949 1951-52	NRSA02J-222X NRSA02J-0R0X NRSA02J-393X NRSA02J-102X NRSA02J-472X NRSA02J-222X NRSA02J-104X QRT029J-1R2	MG R MG R MG R MG R MG R MG R MG R	2.2kΩ 1/10W J 0.0Ω 1/10W J 39kΩ 1/10W J 1kΩ 1/10W J 4.7kΩ 1/10W J 2.2kΩ 1/10W J 100kΩ 1/10W J 1.2Ω 2W J

Δ	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		_
	R1954 R1955 R1956 R1958-59 R1961 R1962 R1963 R1964	QRE121J-272Y QRE121J-473Y NRSA02J-223X NRSA02J-0R0X QRJ146J-3R3X QRL029J-472 NRSA02J-103X NRSA02J-223X	C R C R MG R MG R C R MG R MG R	$\begin{array}{ccccc} 2.7 k \Omega & 1/2 W & J \\ 47 k \Omega & 1/2 W & J \\ 22 k \Omega & 1/10 W & J \\ 0.0 \Omega & 1/10 W & J \\ 3.3 \Omega & 1/4 W & J \\ 4.7 k \Omega & 2 W & J \\ 10 k \Omega & 1/10 W & J \\ 22 k \Omega & 1/10 W & J \\ \end{array}$
	R1966 R1967 R1971	NRSA02J-223X QRE121J-683Y QRL029J-150	MG R C R OM R	22kΩ 1/10W J 68kΩ 1/2W J 15Ω 2W J
_	CABA	CITOR		
	CAFA	QETN1HM-475Z	E CAP.	4.7μF 50V M
	C1003 C1004 C1005 C1006 C1007 C1009 C1011	QETN1EM-476Z QETN1EM-277Z QETN1EM-476Z NCB21HK-103X QETN1HM-106Z NDC21HJ-151X NCB21HK-103X	E CAP. E CAP. E CAP. C CAP. C CAP. C CAP. C CAP.	47μF 25V M 220μF 16V M 47μF 25V M 0.01μF 50V K 10μF 50V M 150pF 50V J 0.01μF 50V K
	C1201 C1205 C1206 C1207 C1208 C1225 C1231 C1233	QETN1EM-476Z QETN1HM-106Z NCB21HK-104X QETN1CM-108Z NCB21HK-102X QETN1EM-476Z QETN1EM-476Z QETN1HM-105Z NCB21HK-682X	E CAP. E CAP. CHIP CAP. E CAP. C CAP. E CAP. E CAP. E CAP. E CAP.	47μF 25V M 10μF 50V M 0.1μF 50V K 1000μF 16V M 1000μF 50V K 47μF 25V M 1μF 50V M 6800pF 50V K
	C1234 C1235 C1241 C1242 C1243 C1251 C1252 C1253	NCB21EK-683X NCB21HK-223X QETN1EM-476Z QETN1HM-106Z QETN1HM-105Z QETN1HM-105Z QETN1HM-475Z QETN1HM-225Z	C CAP. C CAP. E CAP.	0.068μF 25V K 0.022μF 50V K 47μF 25V M 10μF 50V M 47μF 25V M 1μF 50V M 4.7μF 50V M 2.2μF 50V M
	C1254 C1255 C1256 C1271 C1281 C1283-87 C1288-89 C1301	QETN1HM-105Z QETN1HM-106Z QETN1HM-105Z QETN1HM-476Z QETN1HM-476Z QETN1HM-106Z QETN1HM-106Z QENC1EM-106Z NDC21HJ-9ROX	E CAP. C CAP.	1µF 50V M 10µF 50V M 1µF 50V M 47µF 25V M 1000µF 16V M 10µF 50V M 10µF 25V M 9.0pF 50V J
	C1302 C1303 C1304 C1305 C1306 C1307 C1308 C1309	NCB21HK-223X QENC1HM-105Z NCB21HK-223X NDC21HJ-180X NDC21HJ-101X QETN1AM-108Z NCB21HK-104X NCB21HK-102X	C CAP. BP E CAP. C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.022µF 50V K 1µF 50V M 0.022µF 50V K 18pF 50V J 100pF 50V J 1000µF 10V M 0.1µF 50V K
	C1402 C1403 C1421 C1422 C1424 C1425 C1427 C1428	QFV71HJ-334Z QFV71HJ-394Z NCB2JHK-102X QFLC1HJ-103Z QETN1VM-107Z QETN1VM-477Z QETN1VM-225Z QETM1EM-228	MF CAP. MF CAP. C CAP. M CAP. E CAP. E CAP. E CAP. E CAP. E CAP.	0.33µF 50V J 0.39µF 50V J 1000pF 50V K 0.01µF 50V J 100µF 35V M 470µF 35V M 2.2µF 50V M 2200µF 25V M
	C1431 C1432 C1433 C1434 C1435 C1436 C1501 C1502-03	QFLC1HJ-563Z QETN1HM-476Z QETN1EM-476Z NDC21HJ-100X NCB21HK-103X QFN32AK-224 QETN1CM-337Z QETN1EM-476Z	M CAP. E CAP. C CAP. C CAP. M CAP. E CAP. E CAP. E CAP.	0.056μF 50V J 47μF 50V M 47μF 25V M 10pF 50V J 0.01μF 50V K 0.22μF 100V K 330μF 16V M 47μF 25V M
	C1504	QETN1HM-106Z	E CAP.	10μF 50V M

				I				
<u> </u>	Part No.	Part Name	Description	<u></u> ∆ Symb	bol No.	Part No.	Part Name	Description
CAPA	ACITOR			C	APA	CITOR		
C1505 C1506 C1507 C1508 C1510 C1521 C1522 C1523	NCB21HK-333X NCB21HK-223X QETN1HM-106Z NDC21HG-201X QETN1HM-25Z QCB32HK-151Z QCB32HK-331Z QEHR2CM-105Z	C CAP. C CAP. E CAP. CHIP C CAP. E CAP. C CAP. C CAP. C CAP. E CAP.	0.033µF 50V K 0.022µF 50V K 10µF 50V M 200pF 50V G 2.2µF 50V M 150pF 500V K 330pF 500V K	C192 C192 C193 C193 C193 C193 C193	26 27 28 31 32 33	QCZ0132-152Z QEHQ1VM-108 QETN1CM-227Z QETN1EM-108Z QETN1EM-476Z QEHR1VM-476Z QCZ0132-152Z NCB21HK-102X	C CAP. E CAP. E CAP. E CAP. E CAP. C CAP. C CAP.	1500pF 500V K 1000µF 35V M 220µF 16V M 1000µF 25V M 47µF 25V M 47µF 35V M 1500pF 500V K 1000pF 50V K
△ C1531 △ C1532 △ C1533 C1534 △ C1535 C1536 C1538 C1541	QFZ0196-352 QFZ0198-133 QFP32GJ-223 QERR2EM-225Z QFZ0197-624 QCB32HK-561Z QEZ0420-107 QETNZEM-106Z	MPP CAP. MPP CAP. PP CAP. E CAP. MPP CAP. C CAP. E.CAP. E.CAP.	3500pF1.5kVH ±3% 0.013µF1.5kVH ±3% 0.022µF 400V J 2.2µF 250V M 0.62µF 250V J 560pF 500V K 100µF 160V M 10µF 250V M	C193 C193 C193 C195 C195 C195 C197 C197	37 38 51 52 54 71	QETN1HM-107Z QETN2CM-106Z NDC21HJ-471X QETN1CM-107Z QETN1HM-476Z QEHR1HM-226Z NCB21HK-104X NCB21HK-103X	E CAP. E CAP. C CAP. E CAP. E CAP. E CAP. C CAP. CHIP CAP. C CAP.	100µF 50V M 10µF 160V M 470pF 50V J 100µF 16V M 47µF 50V M 22µF 50V M 0.1µF 50V K 0.01µF 50V K
C1542 C1544 C1545 C1546 C1548 C1551	QETM1VM-108 QETN1VM-107Z QFN32AJ-472Z QFV71HJ-684Z QCB32HK-561Z QETN1HM-106Z	E CAP. E CAP. M CAP. MF CAP. C CAP. E CAP.	1000µF 35V M 100µF 35V M 4700pF 100V J 0.68µF 50V J 560pF 500V K 10µF 50V M	С197 ⚠ С199 ⚠ С199	90 91	QETN1CM-108Z QCZ9074-103 QCZ9074-103	E CAP. C CAP. C CAP.	1000µF 16V M 0.01µFAC125V M 0.01µFAC125V M
C1578-79 C1602	QEM61HK-475Z QETN1HM-474Z	E CAP. E CAP.	4.7µF 50V K 0.47µF 50V M			ISFORM		
C1604 C1605 C1606	QETN1HM-474Z QETN1CM-107Z QETN1EM-108Z	E CAP. E CAP. E CAP.	0.47μF 50V M 100μF 16V M 1000μF 25V M	↑ T152 ↑ T152 ↑ T190	22	CE42034-002 QQH0051-001 CETS124-001J8	H.DRIVE TRANSF. H.V.TRANSF. SWITCH.TRANSF.	
C1607 C1608-09 C1613	QETN1HM-474Z QETN1EM-108Z QETN1EM-476Z	E CAP. E CAP. E CAP.	0.47μF 50V M 1000μF 25V M 47μF 25V M		OIL	_		
C1615-17 C1701-02	QETN1HM-474Z NCB21HK-103X	E CAP. C CAP.	0.47μF 50V M 0.01μF 50V K	L100 L120 ⚠ L153	01	QQL29BJ-101Z QQL29BJ-220Z CF41663-00B	PEAKING COIL PEAKING COIL LINFARITY COIL	100μH 22μH
C1703 C1704 C1705 C1706 C1708 C1710-11	QETN1CM-107Z NCB21HK-103X NDC21HJ-181X QETN1HM-474Z QETN1HM-105Z NDC21HJ-390X	E CAP. C CAP. C CAP. E CAP. E CAP. C CAP.	100µF 16V M 0.01µF 50V K 180pF 50V J 0.47µF 50V M 1µF 50V M 39pF 50V J	L153	32 91 01 02 71	QQL29BJ-220Z CE41663-00B QQL2016-821 QQL2018-280 QQL29BJ-4R7Z QQL244J-100Z QQL29BJ-4R7Z	PEAKING COIL LINEARITY COIL CHOKE COIL HEATER CHOKE PEAKING COIL COIL PEAKING COIL	4.7µН 10µН 4.7µН
C1712 C1714	NDC21HJ-270X NCB21HK-103X	C CAP.	27pF 50V J 0.01μF 50V K	L192	21-22	QQL42AK-820Z	COIL	82µН
C1715 C1716 C1717-18	QETN1CM-107Z NCB21HK-103X NDC21HJ-330X	E CAP. C CAP.	100µF 16V M 0.01µF 50V K	D	IOD	ÞΕ		
C1717-18 C1719 C1720-21 C1731 C1736 C1741	NDC21HJ-330X NDC21HJ-471X NCB21HK-103X NRSA02J-0R0X NCB21HK-102X NCB21HK-102X NCB21HK-103X	C CAP. C CAP. C CAP. MG R C CAP. C CAP. C CAP.	336F 50V J 470pF 50V J 0.01μF 50V K 0.0Ω 1/10W J 1000pF 50V K 1000pF 50V K 0.01μF 50V K	D124 D142 D142 D150 D150	22 01 02-03	MTZJ33A-T2 155133-T2 155133-T2 1N4003-T2 MTZJ75-T2 155133-T2 MTZJ6.2B-T2	ZENER DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
C1744 C1746	NRSAO2J-OROX QETN1HM-106Z	MG R E CAP.	0.0Ω 1/10W J 10μF 50V M	D150		M12J5.1B-12	ZENER DIODE	
C1771 C1772 C1773 C1774 C1784	QETN1EM-476Z NCB21HK-103X QETN1CM-107Z QETN1CM-227Z QETN1EM-476Z	E CAP. C CAP. E CAP. E CAP.	47μF 25V M 0.01μF 50V K 100μF 16V M 220μF 16V M 47μF 25V M	D153 D153 D153 D154 D154 D154 D154	33 41 42 44 46	RH3G-F1 RU3AM-LFC4 RCP10J-5025-T3 RH1S-T3 RGP10J-5025-T3 1SS81-T2 1SR124-400A-T2 1SS133-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE	
C1801-03	QETN1HM-105Z QC29078-102 QC29078-102 QC29078-102 QEZ0169-477 QETN1EM-108Z QFN31HJ-102Z QCZ0131-222	E CAP. C CAP. C CAP. C CAP. E.CAP. E.CAP. E CAP. C CAP. C CAP.	1µF 50V M 1000pFAC250V M 1000pFAC250V M 1000pFAC250V M 470µF 200V M 1000µF 25V M 1000pF 50V J 2200pF 2000V K	D154 ▲ D155 D156 D160 D170		MTZJ5.6B-T2 MA4068N/Z1/-T2 15S133-T2 15S133-T2 15S133-T2 15S133-T2 MTZJ5.6B-T2 15S133-T2	ZENER DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE	
C1914 C1915 C1916 C1918 C1919 C1920 C1921 C1923	QCZ0325-391 QFP32GJ-223 QCZ0131-332 NCB21HK-102X NCB21HK-332X QFLC1HJ-823Z QCZ0132-152Z	C CAP. PP CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	390pF 2000V K 0.022pF 400V J 3300pF 2000V K 1000pF 50V K 3300pF 50V K 0.082pF 50V J 1500pF 500V K 1500pF 500V K	D177 D183 D183 ▲ D190 D190 D190	71-72 21 31-32 01 02 03-04	1SS133-T2 MTZJ15A-T2 1SS133-T2 D3SBA60-S1 RGP10J-5025-T3 1SS133-T2	SI.DIODE  SI.DIODE ZENER DIODE SI.DIODE BRIDGE DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE	
C1923	QCZ0132-152Z QEZ0420-107	C CAP. E.CAP.	100μF 160V M	D190 D190	05 09	EG1A-T3 MTZJ15A-T2	SI.DIODE ZENER DIODE	

Λ	Symbol No.	Part No.	Part Name	Description
	DI O D D1910 D1911 D1912 D1913-14 D1916 D1918 D1919-20	RGP10J-5025-T3 155133-T2 MTZJ15A-T2 RGP10J-5025-T3 RGP10J-5025-T3 MTZJ15A-T2 155133-T2	SI.DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE	
	D1921 D1922-23 D1925 D1926-28 D1931 D1933 D1942 D1951	RU30A-F1 RU3YX-LFC4 RGP10J-5025-T3 155133-T2 155133-T2 155133-T2 MTZJ6.8A-T2 MTZJ7.55-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE	
	TDAN	ISISTO	D	
	01001 01201 01203-04 01205 01231 01241-42 01261 01271-74	DTC124EKA-X 25C2412K/QR/-X 25C2412K/QR/-X 25A1037AK/QR/-X 25C2412K/QR/-X 25C2412K/QR/-X 25C2412K/QR/-X 25C2412K/QR/-X	DIGI. TRANSISTOR SI. TRANSISTOR	
<u>^</u>	Q1521 Q1531 Q1541 Q1542 Q1551-52 Q1553 Q1602 Q1603	2SC4212/Z1/ 2SD2539-LB 2SA1037AK/QR/-X 2SC2785/JH/-T 2SA1309A/QR/-T 2SD1408/0Y/-LB 2SC2412K/QR/-X DTC124EKA-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR	H.OUT
	Q1604 Q1742 Q1743-44 Q1821 Q1821 Q1822-23 Q1831 Q1832 Q1911	2SA1037AK/QR/-X DTC124EKA-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SA1037AK/QR/-X	SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
	Q1912 Q1921-22 Q1923 Q1924 Q1925 Q1926 Q1927-28 Q1942	2SD2088-T 2SC2412K/QR/-X 2SA1020/Y/-T 2SC2412K/QR/-X 2SA949/Y/Z1-T 2SC2240/GL/-T DTC1224EKA-X 2SD1383K/AB/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR	
	Q1943 Q1944 Q1951	2SC2240/GL/-T DTC124EKA-X 2SA949/Y/Z1-T	SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR	
	TC			
<u>^</u>	IC1001 IC1201 IC1281 IC1421 IC1423 IC1601 IC1701 IC1702	AN7805F JCC1007A M52055FP-X LA7841 AN78L09-T LA4485 MN1876478JD AT24C02-320501	I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA)	(SERVICE)
<u>^</u>	IC1703 IC1771 IC1901 IC1941 IC1971	MN1381/Q/-T AN77L05-T STR-F6626 SE135N AN7809F	I.C(MONO-ANA) I.C(MONO-ANA) I.C(HYBRID) I.C(HYBRID) I.C(MONO-ANA)	
_	ОТНЕ	RS		
	CF1001 CF1501	QAX0349-001 CSB503F39	CERAMIC FILTER CER.RESONATOR	

Λ	Symbol No.	Part No.	Part Name	Description
	ОТНЕ	RS		
<u>^</u>	CP1902 K1421 K1901-03 K1905-06 K1921-24 PC1901 PC1902 RY1901	ICP-N75-Y CE42050-001Z CE41433-001Z CE41433-001Z CE41433-001Z TLP621(B) TLP621(B) QSK0084-001	I.C.PROTECT CORE BEADS CORE BEADS CORE BEADS CORE I.C(PH.COUPLER) I.C(PH.COUPLER) RELAY	
<u>A</u>	RY1921 51421 TH1901 TU1001 W1295 W1297 W1300 W1668	QSK0084-001 QSL4A13-C02 CEKP007-002 QAU0134-001 NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	RELAY LEVER SWITCH P.THERMISTOR TUNER MG R MG R MG R MG R	0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J
	W1677 W1691-96 W1718-21 W1763-65 W1770 W1811 W1820 W1827-28	NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 0.0\Omega & 1/10W & J \\ \end{array}$
	W1834 W1856 W1878-79 W1885 W1892 W1896 W1900 W1902	NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 0.0\Omega & 1/10W & J \\ \end{array}$
	X1301 Y1602 Y1604 Y1709 Y1711 Y1720	QAX0310-001Z NRSA02J-0R0X NRSA02J-0R0X NRSA02J-0R0X NRSA02J-0R0X NRSA02J-0R0X	CRYSTAL MG R MG R MG R MG R MG R	0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J 0.0Ω 1/10W J

# CRT SOCKET P.W. BOARD ASS'Y (SGR-3003A-M2)

Refer to PARTS LIST in page 42 for this P.W. board.

# FRONT CONTROL P.W. BOARD ASS'Y (SGR-4003A-M2)

Refer to PARTS LIST in page 42 for this P.W. board.

# AV SELECTOR P.W. BOARD ASS'Y (SGR-8004A-M2)

Refer to PARTS LIST in page 43 for this P.W. board.

## FRONT AV IN P.W. BOARD ASS'Y (SGR-8301A-M2)

Refer to PARTS LIST in page 44 for this P.W. board.

#### LINE FILTER P.W. BOARD ASS'Y (SGR-9002A-M2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESI	STOR		
₾	R9998 R9999	QRZ9041-275 QRE121J-121Y	CARBON RESISTOR C R	2.7MΩ 1/2W K 120Ω 1/2W J
	CAPA	CITOR		
<u>^</u> <u>^</u> <u>^</u>	C9901 C9902 C9903 C9904	QFZ9067-104 QFZ9067-473 QFZ9067-104 QCZ9052-102	MPP CAP. MPP CAP. MPP CAP. C CAP.	0.1μFAC275V M 0.047μFAC275V M 0.1μFAC275V M 1000pFAC125V M
	ОТНЕ	RS		
Δ Δ Δ Δ	CN90PW F9901 FC9901 LF9901 LF9902 VA9901	QMPD200-200-JC QMF0007-5R0J1 CEMG002-001Z CELF001-001J1 CE42335-001J1 ERZV10V621CS	POWER CORD FUSE FUSE CLIP LINE FILTER LINE FILTER VARISTOR	5. OA

# IF P.W. BOARD ASS'Y (SGR0F002A-M2)

Refer to PARTS LIST in page 45 for this P.W. board.

### III. AV-32D201(A US&A CA)

### PRINTED WIRING BOARD PARTS LIST

#### MAIN P.W. BOARD ASS'Y (SGR-1017A-M2)

Λ	Symbol No.	Part No.	Part Name	Description	⚠ Symbol No.	Part No.	Part Name	Description
=		STOR	. a. c . name			STOR	Tare name	2000peo
	R1003 R1004 R1005 R1006 R1201 R1202 R1203 R1204	NRSA02J-221X NRSA02J-0R0X NRSA02J-103X NRSA02J-820X NRSA02J-472X NRSA02J-152X NRSA02J-223X NRSA02J-683X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	R1502 R1503 R1505 R1506 R1507 R1508-09 R1510	NRSA02J-101X NRSA02J-103X NRSA02J-473X NRSA02J-101X NRSA02J-681X NRSA02J-02X NRSA02J-0R0X NRSA02J-182X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 100\Omega & 1/10\text{W} & \text{J} \\ 10\text{k}\Omega & 1/10\text{W} & \text{J} \\ 47\text{k}\Omega & 1/10\text{W} & \text{J} \\ 100\Omega & 1/10\text{W} & \text{J} \\ 680\Omega & 1/10\text{W} & \text{J} \\ 1\text{k}\Omega & 1/10\text{W} & \text{J} \\ 0.0\Omega & 1/10\text{W} & \text{J} \\ 1.8\text{k}\Omega & 1/10\text{W} & \text{J} \\ 1.8\text{k}\Omega & 1/10\text{W} & \text{J} \end{array}$
	R1205 R1209 R1210 R1212 R1213-14 R1215 R1216 R1218	NRSA02J-222X NRSA02J-0R0X NRSA02J-272X NRSA02J-471X NRSA02J-821X NRSA02J-681X NRSA02J-272X NRSA02J-101X	MG R MG R MG R MG R MG R MG R MG R	2.2kΩ 1/10W J 0.0Ω 1/10W J 2.7kΩ 1/10W J 470Ω 1/10W J 820Ω 1/10W J 680Ω 1/10W J 2.7kΩ 1/10W J 100Ω 1/10W J	R1512 R1513 R1516 R1521 R1522 R1523 R1524-25 R1531	NRSA02J-563X NRSA02J-103X NRSA02J-821X NRSA02J-321X NRSA02J-271X QRE12IJ-103Y QRE029J-152 QRE121J-220Y	MG R MG R MG R MG R C R C R OM R C R	56kΩ 1/10W J 10kΩ 1/10W J 820Ω 1/10W J 330Ω 1/10W J 270Ω 1/10W J 10kΩ 1/2W J 1.5kΩ 2W J 22Ω 1/2W J
	R1219 R1231 R1232 R1233 R1234 R1235 R1236 R1237	NRSA02J-101X NRSA02J-473X NRSA02J-221X NRSA02J-102X NRSA02J-821X NRSA02J-562X NRSA02J-105X NRSA02J-0ROX	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccc} 100\Omega & 1/10W & J \\ 47k\Omega & 1/10W & J \\ 220\Omega & 1/10W & J \\ 1k\Omega & 1/10W & J \\ 820\Omega & 1/10W & J \\ 5.6k\Omega & 1/10W & J \\ 1M\Omega & 1/10W & J \\ 0.0\Omega & 1/10W & J \\ \end{array}$	R1532 R1533 R1541 R1542 △ R1544 R1545 R1547 R1548	QRE121J-681Y QRL039J-103 QRK129J-150 QRX01GJ-1R2 QRZ9017-4R7 QRE121J-332Y QRE121J-154Y QRE121J-184Y	C R OM R C R MF R FUSI.RESISTOR C R C R C R	$\begin{array}{ccccc} 680\Omega & 1/2W & J \\ 10k\Omega & 3W & J \\ 15\Omega & 1/2W & J \\ 1.2\Omega & 1W & J \\ 4.7 & \Omega & 1/4W & J \\ 3.3k\Omega & 1/2W & J \\ 150k\Omega & 1/2W & J \\ 180k\Omega & 1/2W & J \\ \end{array}$
	R1238 R1241 R1242 R1243 R1245 R1246 R1247-48 R1251	NRSA02J-682X NRSA02J-472X NRSA02J-392X NRSA02J-182X NRSA02J-471X NRSA02J-392X NRSA02J-471X NRVA02D-102X	MG R MG R MG R MG R MG R MG R MG R	6.8kΩ 1/10W J 4.7kΩ 1/10W J 3.9kΩ 1/10W J 1.8kΩ 1/10W J 470Ω 1/10W J 3.9kΩ 1/10W J 470Ω 1/10W J 1kΩ 1/10W J 1kΩ 1/10W D	⚠ R1556 ⚠ R1557 R1558 R1559 R1560 R1561 R1582 R1583	QRA14CF-7321Y QRA14CF-3301Y NRSA02J-333X NRSA02J-123X NRSA02J-273X NRSA02J-103X NRSA02J-331X NRSA02J-223X	MF R MF R MG	7.32kΩ 1/4W F 3.3kΩ 1/4W F 33kΩ 1/10W J 12kΩ 1/10W J 27kΩ 1/10W J 10kΩ 1/10W J 330Ω 1/10W J 22kΩ 1/10W J
	R1252 R1253 R1254 R1255 R1261 R1262 R1263 R1271	NRVAO2D-681X NRSAO2J-183X NRSAO2J-105X NRSAO2J-124X NRSAO2J-103X NRSAO2J-222X NRSAO2J-101X NRSAO2J-561X	MF R MG R MG R MG R MG R MG R MG R	680Ω 1/10W D 18KΩ 1/10W J 1MΩ 1/10W J 120KΩ 1/10W J 10KΩ 1/10W J 2.2kΩ 1/10W J 100Ω 1/10W J 560Ω 1/10W J	R1584 R1585 R1586 R1587 R1588 R1601 R1602 R1603	NRSA02J-821X QRE121J-392Y QRE121J-682Y QRE121J-822Y QRL039J-150 NRSA02J-682X NRSA02J-682X NRSA02J-682X	MG R C R C R C R OM R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	R1272 R1273 R1274-75 R1276 R1277 R1278 R1279 R1280-83	NRSA02J-102X NRSA02J-152X NRSA02J-223X NRSA02J-222X NRSA02J-471X NRSA02J-122X NRSA02J-152X NRSA02J-222X	MG R MG R MG R MG R MG R MG R MG R	1kΩ 1/10W J 1.5kΩ 1/10W J 22kΩ 1/10W J 2.2kΩ 1/10W J 2.2kΩ 1/10W J 470Ω 1/10W J 1.2kΩ 1/10W J 1.5kΩ 1/10W J 2.2kΩ 1/10W J	R1604 R1605 R1606-07 R1611 R1612 R1615-16 R1617 R1620	NRSA02J-0ROX QRT029J-R15 NRSA02J-223X NRSA02J-333X NRSA02J-223X NRSA02J-821X NRSA02J-801X NRSA02J-102X NRSA02J-104X	MG R MF R MG R MG R MG R MG R MG R	0.0Ω 1/10W J 0.15Ω 2W J 22kΩ 1/10W J 33kΩ 1/10W J 22kΩ 1/10W J 820Ω 1/10W J 1kΩ 1/10W J 100kΩ 1/10W J
	R1284 R1301-02 R1401 R1421 R1423 R1424 R1426 R1427	QRE121J-470Y NRSA02J-472X NRVA02D-472X NRSA02J-562X NRSA02J-393X NRSA02J-123X NRSA02J-183X QRT029J-1R5	C R MG R MF R MG R MG R MG R MG R	$\begin{array}{ccccc} 47\Omega & 1/2W & J \\ 4.7k\Omega & 1/10W & J \\ 4.7k\Omega & 1/10W & D \\ 5.6k\Omega & 1/10W & J \\ 39k\Omega & 1/10W & J \\ 12k\Omega & 1/10W & J \\ 18k\Omega & 1/10W & J \\ 1.5\Omega & 2W & J \\ \end{array}$	R1701 R1704 R1705 R1706 R1708 R1710 R1714-16 R1717	NRSA02J-102X NRSA02J-0R0X NRSA02J-103X NRSA02J-223X NRSA02J-223X NRSA02J-331X NRSA02J-331X NRSA02J-331X	MG R MG R MG R MG R MG R MG R MG R	1kΩ 1/10W J 0.0Ω 1/10W J 10kΩ 1/10W J 22kΩ 1/10W J 22kΩ 1/10W J 330Ω 1/10W J 2.2kΩ 1/10W J 330Ω 1/10W J 330Ω 1/10W J
	R1429 R1431 R1432 R1433 R1434 R1435 R1441 R1442	NRSA02J-472X NRSA02J-152X NRSA02J-101X NRSA02J-471X QRL029J-181 QRE121J-102Y NRSA02J-332X NRSA02J-0ROX	MG R MG R MG R MG R OM R C R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	R1718 R1719 R1720 R1721 R1724 R1725 R1726-27 R1728-29	NRSA02J-222X NRSA02J-331X NRSA02J-222X NRSA02J-331X NRSA02J-102X NRSA02J-104X NRSA02J-682X NRSA02J-332X	MG R MG R MG R MG R MG R MG R MG R	2.2kΩ 1/10W J 330Ω 1/10W J 2.2kΩ 1/10W J 330Ω 1/10W J 1kΩ 1/10W J 100kΩ 1/10W J 6.8kΩ 1/10W J 3.3kΩ 1/10W J
	R1501	QRK126J-151X	C R	150Ω 1/2W J	R1730	NRSA02J-101X	MG R	100Ω 1/10W J

⚠ Symbol No.	Part No.	Part Name	Description	<b>∆</b> Symbol No.	Part No.	Part Name	Description
	STOR		<u> </u>		STOR		· · · · · · · · · · · · · · · · · · ·
R1731 R1732 R1733-34 R1736 R1739 R1741 R1742 R1743	NRSA02J-101X NRSA02J-224X NRSA02J-682X NRSA02J-102X NRSA02J-473X NRSA02J-223X NRSA02J-822X NRSA02J-222X	MG R MG R MG R MG R MG R MG R MG R	100Ω 1/10W J 220kΩ 1/10W J 6.8kΩ 1/10W J 1kΩ 1/10W J 47kΩ 1/10W J 22kΩ 1/10W J 8.2kΩ 1/10W J 2.2kΩ 1/10W J	R1948 R1949 R1951-52 R1954 R1955 R1956 R1958-59 R1961	NRSA02J-222X NRSA02J-104X QRT029J-1R2 QRE121J-272Y QRE121J-473Y NRSA02J-223X NRSA02J-0R0X QRJ146J-3R3X	MG R MG R MF R C R C R MG R MG R C R	2.2kΩ 1/10W J 100kΩ 1/10W J 1.2Ω 2W J 2.7kΩ 1/2W J 47kΩ 1/2W J 22kΩ 1/10W J 0.0Ω 1/10W J 3.3Ω 1/4W J
R1744 R1745 R1746 R1747 R1749 R1750 R1753-54 R1756	NRSA02J-103X NRSA02J-223X NRSA02J-103X NRSA02J-222X NRSA02J-622X NRSA02J-102X NRSA02J-103X NRSA02J-103X	MG R MG R MG R MG R MG R MG R MG R	10kΩ 1/10W J 22kΩ 1/10W J 10kΩ 1/10W J 2.2kΩ 1/10W J 6.8kΩ 1/10W J 1kΩ 1/10W J 10kΩ 1/10W J 10kΩ 1/10W J	R1962 R1963 R1964 R1966 R1967 R1971	QRL029J-472 NRSA02J-103X NRSA02J-223X NRSA02J-223X QRE121J-683Y QRL029J-150	OM R MG R MG R MG R C R OM R	4.7kΩ 2W J 10kΩ 1/10W J 22kΩ 1/10W J 22kΩ 1/10W J 68kΩ 1/2W J 15Ω 2W J
R1757-58	NRSA02J-682X	MG R	6.8kΩ 1/10W J	CAPA	ACITOR		
R1759 R1765-66 R1767 R1772 R1773 R1774 R1775	NRSA02J-102X NRSA02J-0R0X NRSA02J-222X NRSA02J-102X NRSA02J-121X NRSA02J-101X NRSA02J-332X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C1001 C1003 C1004 C1005 C1006 C1007 C1009	QETN1HM-475Z QETN1EM-476Z QETN1CM-227Z QETN1EM-476Z NCB21HK-103X QETN1HM-106Z NDC21HJ-151X	E CAP. E CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	4.7μF 50V M 47μF 25V M 220μF 16V M 47μF 25V M 0.01μF 50V K 10μF 50V M 150pF 50V J
R1776 R1777 R1791-99 R1801-04 R1805 R1806 R1807 R1821	NRSA02J-101X NRSA02J-332X NRSA02J-471X NRSA02J-332X NRSA02J-101X NRSA02J-101X NRSA02J-101X NRSA02J-223X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 100\Omega & 1/10W & J \\ 3.3k\Omega & 1/10W & J \\ 470\Omega & 1/10W & J \\ 3.3k\Omega & 1/10W & J \\ 100\Omega & 1/10W & J \\ 100\Omega & 1/10W & J \\ 100\Omega & 1/10W & J \\ 2k\Omega & 1/10W & J \\ \end{array}$	C1011 C1201 C1205 C1206 C1207 C1208 C1225 C1231 C1233	NCB21HK-103X QETN1EM-476Z QETN1HM-106Z NCB21HK-104X QETN1CM-108Z NCB21HK-102X QETN1EM-476Z QETN1HM-105Z NCB21HK-682X	E CAP. E CAP. CHIP CAP. E CAP. C CAP. C CAP. E CAP. E CAP. C CAP. C CAP.	0.01µF 50V K  47µF 25V M 10µF 50V M 0.1µF 50V K 1000µF 16V M 1000pF 50V K 47µF 25V M 1µF 50V M 6800pF 50V K
R1822 R1823 R1824 R1825 R1826 R1831 R1832 R1833-34	NRSA02J-822X NRSA02J-153X NRSA02J-333X NRSA02J-472X NRSA02J-473X NRSA02J-0R0X NRSA02J-0R0X NRSA02J-082X NRSA02J-102X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C1234 C1235 C1241 C1242 C1243 C1251 C1252	NCB21EK-683X NCB21HK-223X QETN1EM-476Z QETN1HM-106Z QETN1EM-476Z QETN1EM-105Z QETN1HM-105Z QETN1HM-475Z	C CAP. C CAP. E CAP. E CAP. E CAP. E CAP. E CAP.	0.068µF 25V K 0.022µF 50V K 47µF 25V M 10µF 50V M 47µF 25V M 1µF 50V M 4.7µF 50V M
R1835-36 ▲ R1901 R1902 R1903 R1904-05 R1906 R1907-08 R1909	NRSA02J-473X QRF074K-R47 QRE121J-822Y NRSA02J-681X QRT029J-R22 QRE121J-822Y QRL039J-393 QRE121J-332Y	MG R UNF R C R MG R MF R C R OM R C R	$\begin{array}{cccccc} 47k\Omega & 1/10W & J \\ 0.47 & \Omega & 7W & K \\ 8.2k\Omega & 1/2W & J \\ 680\Omega & 1/10W & J \\ 0.22\Omega & 2W & J \\ 8.2k\Omega & 1/2W & J \\ 39k\Omega & 3W & J \\ 3.3k\Omega & 1/2W & J \\ \end{array}$	C1253 C1254 C1255 C1256 C1271 C1281 C1283-87 C1288-89	QETN1HM-125Z QETN1HM-105Z QETN1HM-105Z QETN1HM-105Z QETN1EM-476Z QETN1EM-108Z QETN1HM-106Z QENCIEM-106Z NDC21HJ-9ROX	E CAP. C CAP.	2.2µF 50V M  1µF 50V M  10µF 50V M  1µF 50V M  47µF 25V M  100µF 16V M  10µF 50V M  10µF 50V M  9.0pF 50V J
R1912-13 R1914 R1916 R1917 R1918 R1919 R1920 R1924	QRE121J-333Y QRE121J-2R2Y NRSA02J-152X NRSA02J-103X NRSA02J-182X NRSA02J-152X NRSA02J-103X QRG01GJ-221	C R C R MG R MG R MG R MG R MG R	33kΩ 1/2W J 2.2Ω 1/2W J 1.5kΩ 1/10W J 10kΩ 1/10W J 1.8kΩ 1/10W J 1.5kΩ 1/10W J 10kΩ 1/10W J 220Ω 1W J	C1301 C1302 C1303 C1304 C1305 C1306 C1307 C1308 C1309	NCB21HK-223X QENC1HM-105Z NCB21HK-223X NDC21HJ-180X NDC21HJ-101X QETN1AM-108Z NCB21HK-104X NCB21HK-104X	C CAP.  C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.022µF 50V K 1µF 50V M 0.022µF 50V K 180F 50V J 1000µF 10V M 0.1µF 50V K
R1925 R1926 R1928 R1931 R1933 R1934 R1936 R1937	NRSA02J-103X QRT029J-R82 NRSA02J-682X NRSA02J-682X NRSA02J-102X NRSA02J-104X QRE121J-222Y NRSA02J-822X	MG R MF R MG R MG R MG R C R MG R	10kΩ 1/10W J 0.82Ω 2W J 6.8kΩ 1/10W J 6.8kΩ 1/10W J 1kΩ 1/10W J 100kΩ 1/10W J 2.2kΩ 1/2W J	C1402 C1403 C1421 C1422 C1424 C1425 C1427 C1428	QFV71HJ-334Z QFV71HJ-394Z NCB21HK-102X QFLC1HJ-103Z QETN1VM-107Z QETN1VM-477Z QETN1VM-225Z QETM1EM-225Z	MF CAP. MF CAP. C CAP. M CAP. E CAP. E CAP. E CAP. E CAP. E CAP. E CAP.	0.33µF 50V J 0.39µF 50V J 1000pF 50V K 0.01µF 50V J 100µF 35V M 470µF 35V M 2.2µF 50V M 2200µF 25V M
R1938 R1940 R1941 R1942 R1943 R1944 R1945-46 R1947	NRSA02J-272X NRSA02J-104X NRSA02J-102X NRSA02J-272X NRSA02J-0R0X NRSA02J-102X NRSA02J-102X NRSA02J-472X	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 2.7k\Omega & 1/10W & J \\ 100k\Omega & 1/10W & J \\ 1k\Omega & 1/10W & J \\ 2.2k\Omega & 1/10W & J \\ 0.0\Omega & 1/10W & J \\ 39k\Omega & 1/10W & J \\ 1k\Omega & 1/10W & J \\ 4.7k\Omega & 1/10W & J \\ \end{array}$	C1431 C1432 C1433 C1434 C1435 C1436 C1501	QFLC1HJ-563Z QETN1HM-476Z QETN1EM-476Z NDC21HJ-100X NCB21HK-103X QFM32AK-224 QETN1CM-337Z	M CAP. E CAP. C CAP. C CAP. M CAP. E CAP. E CAP.	0.056μF 50V J 47μF 50V M 47μF 25V M 10ρF 50V J 0.01μF 50V K 0.22μF 100V K 330μF 16V M

ription	Descrip	Part Name	Part No.	Symbol No.	Δ
25V M	47E 25'		ACITO		
25V M 50V M 50V K 50V K 50V M 50V G 50V M 500V K	10µF 50' 0.033µF 50' 0.022µF 50' 10µF 50' 200pF 50' 2.2µF 50'	E CAP. E CAP. C CAP. C CAP. E CAP. CHIP C CAP. E CAP. C CAP.	QETN1EM-476Z QETN1HM-106Z NGB21HK-333X NCB21HK-223X QETN1HM-106Z NDC21HG-201X QETN1HM-225Z QCB32HK-151Z	C1502-03 C1504 C1505 C1506 C1507 C1508 C1510 C1521	
kVH ±3% kVH ±3%	1µF 160' 3500pF1.5kVH 0.013µF1.5kVH 0.022µF 400' 2.2µF 250' 0.53µF 250'	C CAP. E CAP. MPP CAP. MPP CAP. PP CAP. E CAP. MPP CAP. C CAP.	QCB32HK-331Z QEHR2CM-105Z QFZ0196-352 QFZ0198-133 QFP32GJ-223 QEHR2EM-225Z QFZ0197-534 QCB32HK-561Z	C1522 C1523 C1531 C1532 C1533 C1534 C1535 C1536	Δ
160V M 250V M 35V M 35V M 100V J 50V J 500V K 50V M	10µF 250' 1000µF 35' 100µF 35' 4700pF 100' 0.68µF 50' 560pF 500'	E CAP. E CAP. E CAP. E CAP. M CAP. MF CAP. C CAP. E CAP.	QEZ0420-107 QETN2EM-106Z QETM1VM-108 QETN1VM-107Z QFN32AJ-472Z QFV71HJ-684Z QCB32HK-561Z QETN1HM-106Z	C1538 C1541 C1542 C1544 C1545 C1546 C1548 C1551	
50V K 50V M 50V M 16V M 25V M 50V M 25V M	0.47µF 50' 0.47µF 50' 100µF 16' 1000µF 25' 0.47µF 50' 1000µF 25'	E CAP.	QEM61HK-475Z QETN1HM-474Z QETN1HM-474Z QETN1CM-107Z QETN1EM-108Z QETN1HM-474Z QETN1EM-108Z QETN1EM-476Z	C1578-79 C1602 C1604 C1605 C1606 C1607 C1608-09 C1613	
50V M 50V K 16V M 50V K 50V J 50V M 50V M 50V J	0.01µF 50' 100µF 16' 0.01µF 50' 180pF 50' 0.47µF 50' 1µF 50'	E CAP. C CAP. E CAP. C CAP. C CAP. E CAP. E CAP. C CAP.	QETN1HM-474Z NCB21HK-103X QETN1CM-107Z NCB21HK-103X NDC21HJ-181X QETN1HM-474Z QETN1HM-105Z NDC21HJ-221X	C1615-17 C1701 C1703 C1704 C1705 C1706 C1708 C1709	
50V J 50V J 50V K 16V M 50V K 50V J 50V J	27pF 50' 0.01µF 50' 100µF 16' 0.01µF 50' 33pF 50' 470pF 50'	C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	NDC21HJ-390X NDC21HJ-270X NCB21HK-103X QETN1CM-1077 NCB21HK-103X NDC21HJ-330X NDC21HJ-471X NCB21HK-103X	C1710-11 C1712 C1714 C1715 C1716 C1717-18 C1719 C1720-21	
50V K 50V K 50V K	1000pF 50' 0.01μF 50' 0.0Ω 1/10' 10μF 50' 47μF 25'	MG R C CAP. C CAP. C CAP. MG R E CAP. E CAP.	NRSA02J-OROX NCB21HK-102X NCB21HK-102X NCB21HK-103X NRSA02J-OROX QETN1HM-106Z QETN1EM-476Z NCB21HK-103X	C1731 C1736 C1741 C1743 C1744 C1746 C1771 C1772	
	220μF 16 47μF 25 1μF 50 1μF 50	E CAP. E CAP. E CAP. E CAP. E CAP. C CAP. C CAP.	QETN1CM-107Z QETN1CM-227Z QETN1EM-476Z QETN1HM-105Z QETN1HM-105Z QETN1HM-105Z QCZ9078-102 QCZ9078-102	C1773 C1774 C1784 C1801 C1802 C1803 C1906 C1907	
200V M 25V M 50V J 000V K 000V K 400V J		C CAP. E CAP. E CAP. M CAP. C CAP. C CAP. C CAP. C CAP.	QCZ9078-102 QEZ0169-477 QETN1EM-108Z QFN31HJ-102Z QCZ0131-222 QCZ0325-391 QFP32GJ-223 QCZ0131-332	C1908 C1910 C1911 C1912 C1913 C1914 C1915 C1916	<u>^</u>
4	1000pF 2200pF 20 390pF 20 0.022μF 4	M CAP. C CAP. C CAP. PP CAP.	QFN31HJ-102Z QCZ0131-222 QCZ0325-391 QFP32GJ-223	C1912 C1913 C1914 C1915	

Δ	Symbol No.	Part No.	Part Name	Description
	,	CITOR	-	
	C1919 C1920 C1921 C1923 C1924 C1925 C1926 C1927	NCB21HK-332X QFLC1HJ-823Z QCZ0132-152Z QCZ0132-152Z QEZ0420-107 QCZ0132-152Z QEHQ1VM-108 QETN1CM-227Z	C CAP. M CAP. C CAP. C CAP. E CAP. E CAP. E CAP. E CAP. E CAP.	3300pF 50V K 0.082µF 50V J 1500pF 500V K 1500pF 500V K 100µF 160V M 1500pF 500V K 1000µF 35V M 220µF 16V M
	C1928 C1931 C1932 C1933 C1934 C1935 C1937 C1938	QETN1EM-108Z QETN1EM-476Z QEHR1VM-476Z QCZ0132-152Z NCB21HK-102X QETN1HM-107Z QETN2M-106Z NDC21HJ-471X	E CAP. E CAP. C CAP.	1000µF 25V M 47µF 25V M 47µF 35V M 1500pF 500V K 1000pF 50V K 100µF 50V M 10µF 160V M 470pF 50V J
	C1951 C1952 C1954 C1971 C1972 C1973 C1990 C1991	QETN1CM-107Z QETN1HM-476Z QEHR1HM-226Z NCB21HK-104X NCB21HK-103X QETN1CM-108Z QCZ9074-103 QCZ9074-103	E CAP. E CAP. E CAP. CHIP CAP. C CAP. E CAP. C CAP. C CAP.	100µF 16V M 47µF 50V M 22µF 50V M 0.1µF 50V K 0.01µF 50V K 1000µF 16V M 0.01µFAC125V M
_	TRAN	ISFORME	 ≣ R	
<u>A</u>	T1521 T1522 T1901	CE42034-002 QQH0051-001 CETS124-001J8	H.DRIVE TRANSF. H.V.TRANSF. SWITCH.TRANSF.	
_	COIL			
	L1002 L1201 L1531 L1532 L1591 L1701 L1702 L1771	QQL29BJ-101Z QQL29BJ-220Z CE41663-00B QQL2016-821 QQL2018-300 QQL29BJ-4R7Z QQL244J-100Z QQL29BJ-4R7Z	PEAKING COIL PEAKING COIL LINEARITY COIL CHOKE COIL HEATER CHOKE PEAKING COIL COIL PEAKING COIL	100µН 22µН 4.7µН 10µН 4.7µН
	L1921-22	QQL42AK-820Z	COIL	82µН
_				
	DIOD D1001	<b>&gt; E</b> MTZJ33A-T2	ZENER DIODE	
	D1241-42 D1244-45 D1421 D1422 D1501 D1502-03 D1504	155133-T2 155133-T2 155133-T2 1M4003-T2 MTZJ75-T2 155133-T2 MTZJ6.2B-T2 MTZJ5.1B-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
	D1531 D1532 D1533 D1541 D1542 D1544 D1546 D1548	RH3G-F1 RU3AM-LFC4 RGP10J-5025-T3 RH1S-T3 RGP10J-5025-T3 15S81-T2 15R124-400A-T2 15S133-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE	
Δ	D1549 D1551 D1560-61 D1601-02 D1608-10 D1701-03 D1704-05 D1741-42	MTZJ5.6B-T2 MA4068W/Z1/-T2 155133-T2 155133-T2 155133-T2 155133-T2 MTZJ5.6B-T2 155133-T2	ZENER DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE	
	D1771-72 D1821 D1831-32	155133-T2 MTZJ15A-T2 155133-T2	SI.DIODE ZENER DIODE SI.DIODE	

<u> </u>	Symbol No.	Part No.	Part Name	Description
	DIOD			
A	D1901 D1902 D1903-04 D1905 D1909	D3SBA60-S1 RGP10J-5025-T3 1SS133-T2 EG1A-T3 MTZJ15A-T2	BRIDGE DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE	
	D1910 D1911 D1912 D1913 D1914 D1916 D1918 D1919-20	RGP10J-5025-T3 155133-T2 MTZJ15A-T2 RGP10J-5025-T3 RGP10J-5025-T3 RGP10J-5025-T3 MTZJ15A-T2 155133-T2	SI.DIODE SI.DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE	
	D1921 D1922-23 D1925 D1926-28 D1931 D1933 D1942 D1951	RU30A-F1 RU3YX-LFC4 RCF10J-5025-T3 1SS133-T2 1SS133-T2 1SS133-T2 MTZJ7.5S-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE	
	TRAN	ISISTO	R	
	01001 01201 01203-04 01205 01231 01241-42 01261 01271-74	DTC124EKA-X 25C2412K/QR/-X 25C2412K/QR/-X 25A1037AK/QR/-X 25C2412K/QR/-X 25C2412K/QR/-X 25C2412K/QR/-X 25C2412K/QR/-X	DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
<u>A</u>	01521 01531 01541 01542 01551-52 01553 01602 01603	2SC4212/71/ 2SD2539-LB 2SA1037AK/QR/-X 2SC2785/JH/-T 2SA1309A/QR/-T 2SD1408/0Y/-LB 2SC2412K/QR/-X DTC124EKA-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR	H.OUT
	01604 01742 01743-44 01821 01822-23 01831 01832 01911	2SA1037AK/QR/-X DTC124EKA-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SC2412K/QR/-X 2SC2412K/QR/-X 2SA1037AK/QR/-X 2SA1037AK/QR/-X	SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
	01912 01921-22 01923 01924 01925 01926 01927-28 01942	2SD2088-T 2SC2412K/QR/-X 2SA1020/Y/-T 2SC2412K/QR/-X 2SA949/Y/Z1-T 2SC2240/GL/-T DTC124EKA-X 2SD1383K/AB/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR	
	Q1943 Q1944 Q1951	2SC2240/GL/-T DTC124EKA-X 2SA949/Y/Z1-T	SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR	
	IC			
Λ	IC1001 IC1201 IC1281 IC1421 IC1423 IC1601 IC1701 IC1702	AN7805F JCC1007A M52055FP-X LA7841 AN78L09-T LA4485 MN1876478JD AT24C02-32D501	I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MONO-ANA) I.C(MICRO-COMP) I.C	(SERVICE)
<u>^</u>	IC1703 IC1771 IC1901 IC1941 IC1971	MN1381/Q/-T AN77L05-T STR-F6626 SE135N AN7809F	I.C(MONO-ANA) I.C(MONO-ANA) I.C(HYBRID) I.C(HYBRID) I.C(HYBRID) I.C(MONO-ANA)	

	Symbol No.	Part No.	Part Name	Description
	ОТНЕ	RS		
) ) ) )	CF1001 CF1501 CF1701 CN1001 CN1002 CN1004 CP1902 K1421	QXX0349-001 CSB503F39 FCR12.0M2S QGB1505J1-15 QGB1505J1-25 QGB1505J1-15 ICP-N75-Y CE42050-001Z	CERAMIC FILTER CER. RESONATOR CER. RESONATOR CONNECTOR CONNECTOR CONNECTOR I.C. PROTECT CORE	
} } }	K1901 K1902 K1903 K1905 K1906 K1921 K1922 K1923	CE41433-001Z CE41433-001Z CE41433-001Z CE41433-001Z CE41433-001Z CE41433-001Z CE41433-001Z CE41433-001Z	BEADS CORE BEADS CORE BEADS CORE BEADS CORE BEADS CORE BEADS CORE BEADS CORE BEADS CORE	
A F	K1924 PC1901 PC1902 RY1901 RY1921 S1421 TH1901 TU1001	CE41433-001Z TLP621(B) TLP621(B) QSK0084-001 QSK0084-001 QSL4A13-C02 CEKP007-002 QAU0133-001	BEADS CORE I.C(PH.COUPLER) I.C(PH.COUPLER) RELAY RELAY LEVER SWITCH P.THERMISTOR TUNER	
)       	W1295 W1297 W1300 W1668 W1677 W1691-96 W1718-21 W1763-65	NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX NRSA02J-OROX	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 0.0\Omega & 1/10W & J \\ \end{array}$
) 	W1770 W1811 W1820 W1827-28 W1834 W1856 W1878-79 W1885	NRSAO2J-OROX NRSAO2J-OROX NRSAO2J-OROX NRSAO2J-OROX NRSAO2J-OROX NRSAO2J-OROX NRSAO2J-OROX NRSAO2J-OROX	MG R MG R MG R MG R MG R MG R MG R	$\begin{array}{ccccc} 0.0\Omega & 1/10W & J \\ \end{array}$
\ \ \ \ \	W1892 W1896 W1900 W1902 X1301 Y1602	NRSAO2J-OROX NRSAO2J-OROX NRSAO2J-OROX NRSAO2J-OROX QAXO310-001Z NRSAO2J-OROX	MG R MG R MG R MG R CRYSTAL MG R	$\begin{array}{cccc} 0.0\Omega & 1/10W & J \\ \end{array}$
	Y1604 Y1709	NRSA02J-OROX NRSA02J-OROX	MG R MG R	0.0Ω 1/10W J 0.0Ω 1/10W J
	Y1711 Y1720	NRSA02J-OROX NRSA02J-OROX	MG R MG R	0.0Ω 1/10W J 0.0Ω 1/10W J

#### CRT SOCKET P.W. BOARD ASS'Y (SGR-3003A-M2)

Refer to PARTS LIST in page 42 for this P.W. board.

# FRONT CONTROL P.W. BOARD ASS'Y (SGR-4003A-M2)

Refer to PARTS LIST in page 42 for this P.W. board.

# AV SELECTOR P.W. BOARD ASS'Y (SGR-8004A-M2)

Refer to PARTS LIST in page 43 for this P.W. board.

#### FRONT AV IN P.W. BOARD ASS'Y (SGR-8301A-M2)

Refer to PARTS LIST in page 44 for this P.W. board.

# LINE FILTER P.W. BOARD ASS'Y (SGR-9002A-M2)

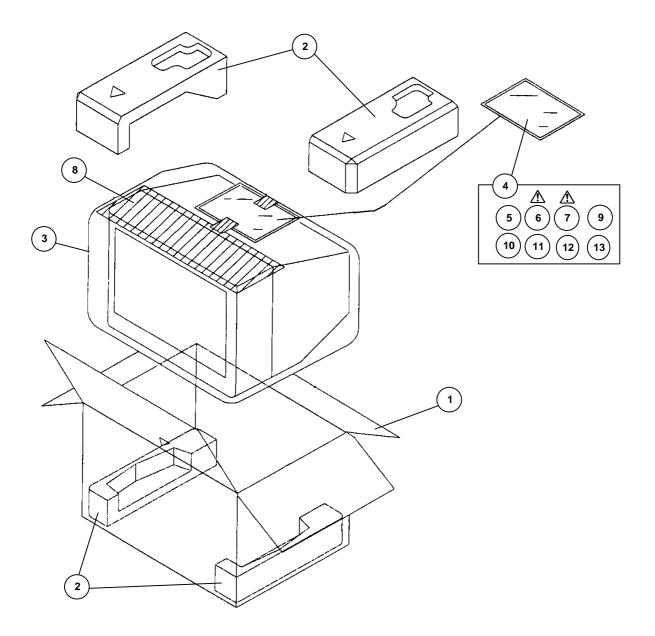
Refer to PARTS LIST in page 50 for this P.W. board.

#### IF P.W. BOARD ASS'Y (SGR0F002A-M2)

Refer to PARTS LIST in page 45 for this P.W. board.

## I . AV-27D201(US&CA) / II . AV-32D201(US&CA) / III . AV-32D201(A US & A CA)

### **PACKING**



### **PACKING PARTS LIST**

I . [ AV-27D201 (US&CA) ]						
⚠ Ref.No.	Part No.	Part Name	Description			
[America Model]  1 2 3 4 5 5 1 6 8 10 12	LC10181-008B-A LC10367-002B-A CP30056-008-A QPA02503505 RM-C383-1A LCT0566-001A-A CP30055-001-A LCT0567-001A-A BT-51006-1Q	PACKING CASE CUSHION ASSY POLY BAG POLY BAG REMOCON UNIT INST BOOK TOP COVER SETUP GUIDE REGISTER CARD	4pcs in 1set  [ENGLISH]  [ENGLISH]			
[Canada Model]  1 2 3 4 5 6 ↑ 7 8 9 10 11 13	LC10181-008B-A LC10367-002B-A CP30056-008-A QPA02503505 RM-C383-1A LCT0568-001A-A LCT0568-001A-A LCT0569-001A-A LCT0569-001A-A LCT0569-001A-A BT-52004-1Q BT-20071B-Q	PACKING CASE CUSHION ASSY POLY BAG POLY BAG REMOCON UNIT INST BOOK INST BOOK TOP COVER SETUP GUIDE SETUP GUIDE WARRANTY CARD SVC CENTER LIST	4pcs in 1set  [ENGLISH] [FRENCH] [FRENCH] [ENGLISH]			
II. [ AV-32D201 (	US&CA) ]					
⚠ Ref.No.	Part No.	Part Name	Description			
[America Model]  1 2 3 4 5 1 6 8 10 12	LC10181-009B-A LC10365-002A-A CP30056-004-A QPA02503505 RM-C383-1A LCT0566-001A-A CP30055-A02-A LCT0567-001A-A BT-51006-1Q	PACKING CASE CUSHION ASSY POLY BAG POLY BAG REMOCON UNIT INST BOOK TOP COVER SETUP GUIDE REGISTER CARD	4pcs in 1set  [ENGLISH]  [ENGLISH]			
[Canada Model]  1 2 3 4 5 6 1 7 8 9 10 11 13	LC10181-009B-A LC10365-002A-A CP30056-004-A QPA02503505 RM-C383-1A LCT0566-001A-A LCT0568-001A-A CP30055-A02-A LCT0569-001A-A LCT0567-001A-A BT-52004-1Q BT-20071B-Q	PACKING CASE CUSHION ASSY POLY BAG POLY BAG REMOCON UNIT INST BOOK INST BOOK TOP COVER SETUP GUIDE SETUP GUIDE WARRANTY CARD SVC CENTER LIST	4pcs in 1set  [ENGLISH] [FRENCH] [FRENCH] [ENGLISH]			
Ⅲ. [ AV-32D201 (A US&A CA) ]						
∧ Ref.No.	Part No.	Part Name	Description			
[America Model]  1 2 3 4 5 6 8 10 12	LC10181-009B-A LC10365-002A-A CP30056-004-A QPA02503505 RM-C383-1A LCT0566-001A-A CP30055-A02-A LCT0567-001A-A BT-51006-1Q	PACKING CASE CUSHION ASSY POLY BAG POLY BAG REMOCON UNIT INST BOOK TOP COVER SETUP GUIDE REGISTER CARD	4pcs in 1set  [ENGLISH]  [ENGLISH]			
[Canada Model]  1 2 3 4 5 6 ↑ 7 8 9 10 11 13	LC10181-009B-A LC10365-002A-A CP30056-004-A QPA02503505 RM-C383-1A LCT0566-001A-A LCT0568-001A-A LCT0569-001A-A LCT0569-001A-A LCT0567-001A-A BT-520071B-Q	PACKING CASE CUSHION ASSY POLY BAG POLY BAG REMOCON UNIT INST BOOK INST BOOK TOP COVER SETUP GUIDE SETUP GUIDE WARRANTY CARD SVC CENTER LIST	4pcs in 1set  [ENGLISH] [FRENCH] [FRENCH] [ENGLISH]			

## I . AV-27D201(US&CA) / II . AV-32D201(US&CA) / III . AV-32D201(A US & A CA)

## **REMOTE CONTROL UNIT PARTS LIST (RM-C383-1A)**

⚠ Ref.No.	Part No.	Part Name	Description
	<del>UR52EC1286A</del>	BATTERY COVER	

AV-27D201 AV-32D201

## JVC SERVICE & ENGINEERING COMPANY OF AMERICA

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